Inductive and J Lapac



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DATALOGIC: SOLUTIONS FOR INDUSTRIAL AUTOMATION



Datalogic Industrial Automation is an industry-leader in products and solutions for material handling, traceability, inspection and detection applications.

With the acquisitions of Accu-Sort and PPT Vision in 2012, the company offers a comprehensive portfolio of products, technologies and solutions delivered by a team of skilled professionals dedicated to providing superior service to customers.

Datalogic is the partner of choice for organizations in the Industrial Automation market.

Factory Automation

- AUTOMOTIVE
- ELECTRONICS
- FOOD & BEVERAGE
- GENERAL MANUFACTURING
- HEALTHCARE PHARMACEUTICAL

Transportation & Logistics

- AIRPORTS
- COURIER, EXPRESS PARCEL (CEP)
- POSTAL
- RETAIL DISTRIBUTION

Product portfolio

Datalogic Industrial Automation has the most comprehensive offering of products and solutions for traceability, inspection and detection applications in factory automation and logistics processes: industrial laser scanners, cameras and vision systems, sensors, machine safety devices and laser markers.

Identification

Even the most demanding and efficient automation of identification processes can leverage Datalogic Industrial Automation's leadership in the market. We manufacture the world's most comprehensive family of fixed-mount line and omnidirectional scanners.

We also offer the latest CCD vision technology with the world's largest installed base of CCD systems for bar code reading and dimensioning.

All of our AUTO-ID products and solutions leverage the broadest decoding library that has been developed through the years. Datalogic's comprehensive AUTO-ID portfolio is used in a wide range of applications and machines which are behind many of the everyday processes that keeps the global economy running.

Sensors & Safety

Datalogic Industrial Automation offers a best-in-class, comprehensive product portfolio of photoelectric and proximity sensors, rotary encoders, temperature controllers and measurement devices, as well as type 2 and type 4 safety light curtains. These product lines provide solutions for applications involving color, contrast and luminescence, label detection, dimensional and distance measurement, in addition to machine safeguarding and access control in dangerous areas.

Machine Vision

The Datalogic Industrial Automation machine vision product line encompasses both hardware and software while covering a wide range of performance and price point requirements. The vision portfolio of products and solutions ranges from simple vision sensors to smart cameras and embedded vision systems.

Laser Marking

Laser Marking sources and systems provide value driven marking solutions for automotive, metal tools, medical, electronics and packaging. Datalogic Industrial Automation offers an extensive range of state-of-the-art technology, excellent performance and high reliability marking equipment.



Inductive Sensors

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

ADVANTAGES

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

DISADVANTAGES

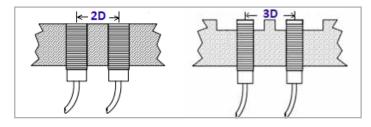
- -only detect metallic objects -low operating distance -sensitive to electromagnetic interference
- (such as electric welding, induction ovens)

Shielded models - FLUSH mounting

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be \geq 3sn and the distance between two proximity switches (side-byside) \geq 2D.

Unshielded models - NON-FLUSH mounting

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend ≥ 2 sn from the metallic installation medium. The distance from opposing metal surfaces must be ≥ 3 sn and the distance between two adjacent proximity switches ≥ 3 D. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

METAL FACE version:

Are available stainless steel versions (M12,M18).

Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

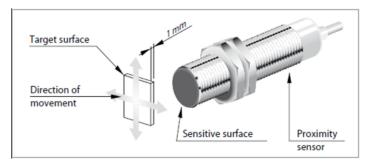
WELD FIELD IMMUNE version:

These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

NAMUR version:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers, in explosive systems or Zone 1 and Zone 2 areas.

The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection. Nominal Switching distance (Sn) According to EN 60947-5-2 When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the 'standard detectable object" at its specified sensing distance. The 'standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.

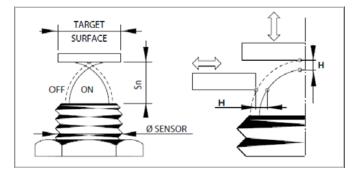


When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

REDUCTION FACTOR	
Fe37	1 x Sn*
Stainless Steel AISI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
Brass-Bronze (CuZn33, UNI EN 12163:1999)	0,5 x Sn
Aluminum (25°C) (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn

Hysteresis (H):

distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



AC/DC version:

Are available 2/3-wires versions (M12, M18, M30), that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA. To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).

"M12/18/30 models are Diversey and ECOLAB tested"



1P6<u>9</u>K

The Stainless Steel series is rated IP69K.

OPERATING DISTANCE

MODEL	M4	M5	M6,5	M8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

HOUSING LENGTHS

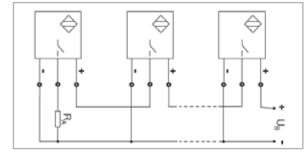
The following table shows the approximate length (mm) intervals for all categories and models of tubular inductive sensors.

MODELS	STAN	IDARD	SHORT		
MODELS	connector	cable	connector	cable	
M4		25			
M5	40	2025			
M6,5	5363	4655	5054	4044	
M8	5273	4455	4857	4044	
M12	6872	5864	4854	4248	
M18	7382	7078	5665	4756	
M30	7485	7082	5668	4956	

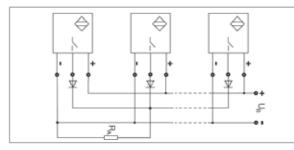
WIRES

ТҮРЕ	description			
	Work with sinking or sourcing devices			
2-3 WIRES	Vdc, Vac and NAMUR versions			
	Higher leakage current			
	Must select PNP or NPN, NC or NO version			
3 WIRES	10-30 Vdc version			
	Low leakage current			
4 WIRES	Programmable output			
	PNP/NPN and NC/NO in one device			

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

ELECTRICAL PARAMETERS

• NOMINAL VOLTAGE Is the permissible voltage range in which certain safe operation of the switch is guaranteed.

RESIDUAL RIPPLE

Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.

MAX. OUTPUT CURRENT

It shows maximum output current a sensor can cope with when working steadly.

MIN. OUTPUT CURRENT

Is the smallest load current required for function of the switch when ON.

RESIDUAL CURRENT

Is the current flowing through the load when a proximity switch is not conducting (open).

VOLTAGE DROP

Is the voltage measured across the load of a closed (conducting) sensor at load current.

START UP DELAY

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

- SWITCHING FREQUENCY Refers to the maximum number of switching operations per second.
- SHORT CIRCUIT PROTECTION Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.
- PROTECTION AGAINST INVERSION OF POLARITY
 Available in DC supplied type, it

damage when supply cables are incorrectly connected.

• INDUCTIVE LOAD PROTECTION It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

INDEX

BASIC

08

- Nickel-plated Brass housing
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection

STAINLESS STEEL

- Stainless Steel housing
- Standard length a,
- Short length .
- Normal and Double range Operating distance ÷.
- Operating distance 0.8 ... 20 mm ÷.
- M4, M5, M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 3 wires
- PNP, NPN, NO, NC ε.
- IP69K protection

INDUCTIVE AC

54

- Nickel-plated Brass housing
- Standard length
- Operating distance 2 ... 10 mm
- M12, M18, M30
- cable or M12 connector
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires
- NO
- IP67 protection

NAMUR

- Nickel-plated Brass housing с.
- Short length .
- Operating distance 0.8 ... 15 mm н.
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO н.
- IP67 protection

Kerena ш.

M4

- flush
- Stainless Steel
- op.dist.: 0,8 mm - diameter: 4 mm
- 3 wires
- PNP or NPN, N.O.
- cable

M5

- flush - Stainless Steel
- op.dist.: 0,8 mm
- double range vers.:
- 1,5 mm
- diameter: 5 mm
- 3 wires
- NAMUR vers. - PNP or NPN, N.O.,
- N.C.
- M8 connector or cable

M6.5

- flush, non-flush - Stainless Steel, Nickel
- plated-Brass
- op.dist.: 1,5...2 mm - double range vers.: 2...3
- mm - diameter: 6,5 mm
- standard or short housing
- 3 wires
- NAMUR (2wires) vers.
- PNP or NPN, N.O., N.C.
- M8 connector or cable

M8

- flush, non-flush - Stainless Steel, Nickel
- plated-Brass
- op.dist.: 1,5...2 mm - double range vers.: 2...3 mm
- diameter: 8 mm
- standard or short housing - 3 wires
- NAMUR (2wires) vers.
- PNP or NPN, N.O., N.C. - M8, M12 connector or cable

M12

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 2...4 mm
- double range vers.: 4...8 mm
- diameter: 12 mm - standard or short housing
- 2, 3, 4 (programmable NPN/ PNP output) wires
- Vac/Vdc vers. - Metal Face vers.
- NAMUR vers.
- Field Immune vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable

60

METAL FACE

- Stainless Steel housing
- Stainless Steel active face н.
- Standard length .
- 2 ... 8 mm .
- M12, M18 .
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

46

WELD FIELD IMMUNE

50

- Stainless Steel housing
- PTFE active face Ε.
- Standard length ы.
- Operating distance 2 ... 8 mm с.
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

SQUARE

- PBT (resin) or Nickel-plated Brass housing .
- Operating distance 1.5 ... 15 mm н.
- 40x40 mm or 8x8 mm dimension a,
- cable, M8 connector or Terminal Block н.
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC e.
- IP67

70

CAPACITIVE

76

- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay) ы.
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2,4,6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay ł,
- Delay ON or delay OFF model ÷.
- IP67 protection

CABLES, CONNECTORS & ACCESSORIES

84

M18

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 5...8 mm
- double range vers.: 8...14 mm
- diameter: 18 mm
- standard or short housing
 2, 3 4 (programmable NPN/PNP output) wires
- Vac/Vdc vers.
- Metal Face vers.
- Field Immune vers. - NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.

M30

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 10...15 mm
- double range vers.: 15...20 mm
- diameter: 30 mm - standard or short housing
- 2, 3, 4 (programmable NPN/PNP
- output) wires - Vac/Vdc vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.
- Capacitive Multivoltage with timer relay output

SQUARE 40X40

- flush, non-flush
- standard or short housing
- Plastic (PBT resin) - op.dist.: 15...30 mm; 7-20 mm
- (Ánalog vers.)
- diameter: 40 mm
- 2, 3 wires
- Vac/Vdc vers.
 - Analog output 4-20mA vers.
 - PNP or NPN, N.O., N.C.
- Terminal block

SQUARE 8X8

- flush
- Nickel-Plated Brass
- op.dist.: 1,5 mm
- diameter: 8 mm
- 3 wires, PNP, N.O.
- M8 connector or cable

- Contract Contract of the

BASIC

Nickel-plated Brass housing Standard length Short length Normal and double range operating distance Operating distance: 1,5 ... 20 mm M6,5, M8, M12, M18, M30 cable, M8 or M12 connector 2, 3 or 4 wires PNP, NPN, PNP/NPN, NO, NC, NO/NC IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

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"M12/18/30 models are Diversey and ECOLAB tested"

ECOLAB

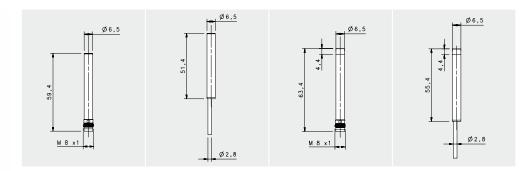
M12/18/30 FLUSH models are ATEX certified II 3G EX nA II T6 II 3D EX tD A22 IP67 T85°C





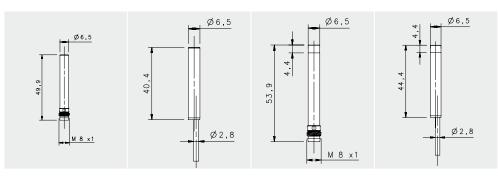
BASIC M6.5





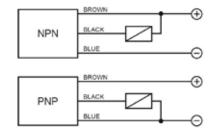
				STANDARD				
				FLUSH		NON	FLUSH	
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITCHING DISTANCE		1,5 mm	1,5 mm	2 mm	2 mm			
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC	4 WIICS	order No.					
10-30 Vdc	PNP	3 wires		IS-65-A1-S1	IS-65-A1-03	IS-65-C1-S1	IS-65-C1-03	
10-30 Vac	NO	JWIES	order No.	95B066050	95B064730	95B066210	95B064890	
10-30 Vdc	PNP	3 wires		IS-65-A2-S1	IS-65-A2-03	IS-65-C2-S1	IS-65-C2-03	
10-30 Vuc	NC	5 WIES	order No.	95B066090	95B064770	95B066250	95B066300	
10 20 1/4-	NPN	2		IS-65-A3-S1	IS-65-A3-03	IS-65-C3-S1	IS-65-C3-03	
10-30 Vdc	NO	3 wires	order No.	95B064970	95B064650	95B066130	95B064810	
40.001/4-	NPN	2		IS-65-A4-S1	IS-65-A4-03	IS-65-C4-S1	IS-65-C4-03	
10-30 Vdc	NC	3 wires	order No.	95B066010	95B064690	95B066170	95B064850	
40.001/1	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN							
10-30 Vdc	NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires						
10-30 Vuc	NO-NC	2 WIES	order No.					
	NO	2						
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2						
20-250 Vac/ Vuc	NC	2 wires	order No.					
20.250.1/	NO	2/2						
20-250 Vac	NO	2/3 wires	order No.					
10-30 Vdc	Analog	3 wires						
	0-20 mA	J WILES	order No.					
NAMUR amplifier	NAMUR	2 wires						
NAMOR amplifier	MAINOR	2 WIIES	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mm	200 mA	200 mm	200 mA
Min. Output Current				
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		3x 0,14 mm²		3x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		80 g		80 g
Weight - Connector Output	40 g		40 g	



	SHI	ORT	
FLU		NON F	LUSH
M8 conn	cable	M8 conn	cable
1,5 mm	1,5 mm	2 mm	2 mm
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03
95B066070	95B064750	95B066230	95B064910
IS-65-B2-S1	IS-65-B2-03	IS-65-D2-S1	IS-65-D2-03
95B066110	95B064790	95B066270	95B064950
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	IS-65-D3-03
95B064990	95B064670	95B066150	95B064830
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03
95B066030	95B064710	95B066190	95B066190
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
	80 g		80 g
40 g		40 g	

3 wires PNP or NPN



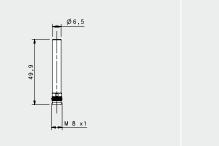
M8 3 pole



and a second	Cor	tects num	bers .
Available	1 SRCWN	BLUE	A BLACK
NPN/PNP	+	-	NO/NO

BASIC M6.5

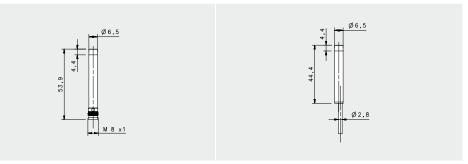






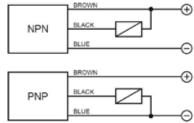
				SHORT X2 FLUSH				
				FLU	JSH			
				M8 conn	cable			
IOMINAL SWITCI	HING DISTANC	E		2 mm	2 mm			
10-30 Vdc	PNP/NPN	4 wires						
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc	PNP	3 wires		IS-65-G1-S1	IS-65-G1-03			
10-30 Vuc	NO	5 WIIES	order No.	95B066060	95B064740			
10-30 Vdc	PNP	3 wires		IS-65-G2-S1	IS-65-G2-03			
10-30 Vuc	NC	5 WIES	order No.	95B066100	95B064780			
10-30 Vdc	NPN	3 wires		IS-65-G3-S1	IS-65-G3-03			
10-30 vac	NO	JWIES	order No.	95B064980	95B064660			
10-30 Vdc	NPN	3 wires		IS-65-G4-S1	IS-65-G4-03			
10-30 Vuc	NC	5 WILES	order No.	95B066020	95B064700			
10-30 Vdc	PNP	4 wires						
10-30 Vuc	NO-NC	4 WIIES	order No.					
10-30 Vdc	NPN	4 wires						
10-30 Vac	NO-NC	4 WIIES	order No.					
10-30 Vdc	NO-NC	2 wires						
10-30 vac	NO-NC	2 WIIES	order No.					
20-250 Vac/Vdc	NO	2 wires						
20 250 Vac/ Vac	NO	2 WIICS	order No.					
20-250 Vac/Vdc	NC	2 wires						
20 250 1427 142		2 11105	order No.					
20-250 Vac	NO	2/3 wires						
20 250 140	110	2/ 5 101/05	order No.					
10-30 Vdc	Analog	3 wires						
	0-20 mA		order No.					
NAMUR amplifier	NAMUR	2 wires						
			order No.					

Newinel Veltere	10 20 1/4-1 15 (10%)	10 20 \/ 4- / 15 / 10%)
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz
Start Up Delay	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		3 x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		80 g
Weight - Connector Output	40 g	



SHO	RT X 2
	I FLUSH
M8 conn	cable
3 mm	3 mm
IS-65-H1-S1	IS-65-H1-03
95B066220	95B064900
IS-65-H2-S1	IS-65-H2-03
95B066260	95B064940
IS-65-H3-S1	IS-65-H3-03
95B066140	95B064820
IS-65-H4-S1	IS-65-H4-03
95B066180	95B064860
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP67	IP67
	2 m
	3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass
INICKEI-DIALEO DIASS	
Nickel-plated brass	80 g

3 wires PNP or NPN

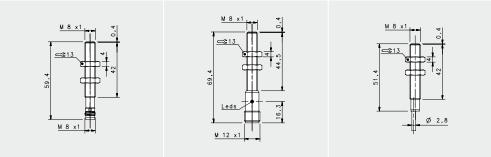


M8 3 pole



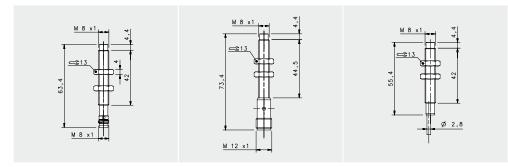
CONT	ACTS CON	FIGURAT	ION		
ourse and	Contacta numbera				
Available	1 SRCWN	BLUE	4 BLACK		
NPN/PNP	+	-	NOINC		





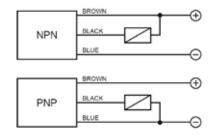
					STANDARD			
				FLUSH				
				M8 conn	M12 conn	cable		
IOMINAL SWITCH	HING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	and an Na					
			order No.	 IS-08-A1-S1	 IS-08-A1-S2	 IS-08-A1-03		
10-30 Vdc	PNP NO	3 wires	order No.	95B061141	95B061131	95B061121		
			order No.	IS-08-A2-S1	IS-08-A2-S2	IS-08-A2-03		
10-30 Vdc	PNP NC	3 wires	order No.	95B061171	958061161	95B061151		
	NPN		order No.	IS-08-A3-S1	IS-08-A3-S2	IS-08-A3-03		
0-30 Vdc	NO	3 wires	order No.	95B061081	95B061071	95B061061		
	NPN		order ivo.	IS-08-A4-S1	IS-08-A4-S2	IS-08-A4-03		
0-30 Vdc	NC	3 wires	order No.	95B061111	95B061101	95B061091		
	PNP							
0-30 Vdc	NO-NC	4 wires	order No.					
	NPN							
0-30 Vdc	NO-NC	4 wires	order No.					
0-30 Vdc	NO-NC	2 wires	order No.					
		<u> </u>						
0-250 Vac/Vdc	NO	2 wires	order No.					
0-250 Vac/Vdc	NC	2 wires						
0-250 Vac7 Vuc	NC	2 wires	order No.					
0-250 Vac	NO	2/3 wires						
U-2JU Val	NU	2/ 3 WILES	order No.					
0-30 Vdc	Analog	3 wires						
0-50 Vuc	0-20 mA	JWIIES	order No.					
IAMUR amplifier	NAMUR	2 wires						
ampiller	MANION	2 WIICS	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Table Length			2 m
Table Section			3x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	STANDARD	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03
95B061541	95B061531	95B061521
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03
95B061571	95B061561	95B061551
IS-08-C3-S1	IS-08-C3-S2	IS-08-C3-03
95B061481	95B061471	95B066410
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03
95B061511	95B061501	95B066450
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
<pre> < 10 mA</pre>	 < 10 mA	
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
(-25 +70 C) IP67	(-25 +70 °C) IP67	(-25 +70 C) IP67
		2 m
		3x 0,14 mm ²
 Nickel-plated brass	 Nickel-plated brass	Nickel-plated brass
Michel placed blass	Micker plated blass	·
		80 g

3 wires PNP or NPN



M12 3 pole



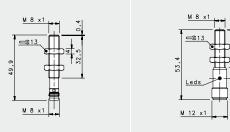
C	DNTACT	S CONFIGU		
Available 1		Contacts	numbers	N
Piraelos/e	1	2	3	4
(NO or NC)	+		12	NO/NC

M8 3 pole

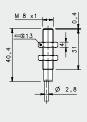
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CONT	CONTACTS CONFIGURATION						
NAME AND A	Cor	tacts num	bers .				
Available	1 SRCWN	BLUE	4 BLACK				
NPN/PNP	+	-	NO/NC				



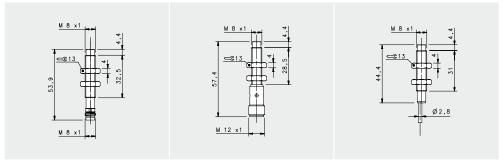






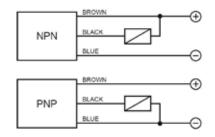
					SHORT			
				FLUSH				
			_	M8 conn	M12 conn	cable		
IOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.					
10-30 Vdc	PNP NO	3 wires		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03		
10-30 Vdc	PNP	3 wires	order No.	95B066860 IS-08-B2-S1	95B066590 IS-08-B2-S2	95B061921 IS-08-B2-03		
	NC NPN	J WIICS	order No.	95B066890 IS-08-B3-S1	95B066620 IS-08-B3-S2	95B061951 IS-08-B3-03		
10-30 Vdc	NO	3 wires	order No.	95B066810	95B066530	95B061861		
10-30 Vdc	NPN NC	3 wires	order No.	IS-08-B4-S1 95B066830	IS-08-B4-S2 95B066560	IS-08-B4-03 95B061891		
10-30 Vdc	PNP NO-NC	4 wires						
10-30 Vdc	NPN	4 wires	order No.					
	NO-NC	4 WIICS	order No.					
10-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires	order No.					
0-250 Vac/Vdc	NC	2 wires						
20-250 Vac	NO	2/3 wires	order No.					
	Analog		order No.					
10-30 Vdc	0-20 mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
/oltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
witching Frequency	1000 Hz	1000 Hz	1000 Hz
itart Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
lemperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3x 0,14 mm²
lousing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Neight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	SHORT	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03
958066970	958066700	95B062321
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
958067000	958066720	95B062351
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
958066920	958066650	95B066430
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
95B066940	95B066670	95B062291
10 20 1/4- (15 / 10%)	10 20 V/dc / 15 (10%)	10.20\/dc/ 15/10%)
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
•	·	80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



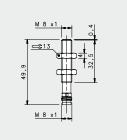
C	ONTACT	S CONFIGU	RATION	
A COMPANY OF A	1112	Contacts	numbers	N 011
Aranapie	1	2	3	4
(NO or NC)	+		2	NO/NC

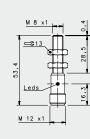
M8 3 pole

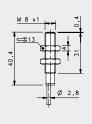


CONTACTS CONFIGURATION						
100000	Cor	tects num	bers .			
Available	1 SRCWN	BLUE	A BLACK			
NPN/PNP	+	-	NOINC			



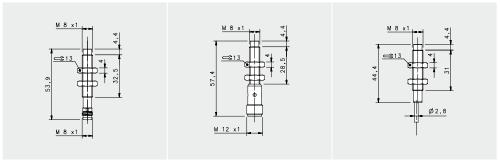






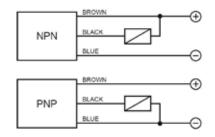
					SHORT X2	
					FLUSH	
			_	M8 conn	M12 conn	cable
OMINAL SWITCH	ING DISTANC	CE		2 mm	2 mm	2 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires		IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03
0.001/1	NO PNP	- ·	order No.	95B066850 IS-08-G2-S1	95B066580 IS-08-G2-S2	95B066370 IS-08-G2-03
10-30 Vdc	NC	3 wires	order No.	95B066880	95B066610	95B066390
0-30 Vdc	NPN NO	3 wires	order No.	IS-08-G3-S1 95B066800	IS-08-G3-S2 95B066520	IS-08-G3-03 95B066330
0-30 Vdc	NPN NC	3 wires	order No.	IS-08-G4-S1 95B063131	IS-08-G4-S2 95B066550	IS-08-G4-03 95B066350
0-30 Vdc	PNP	4 wires				
	NO-NC NPN		order No.			
0-30 Vdc	NO-NC	4 wires	order No.			
0-30 Vdc	NO-NC	2 wires	order No.			
0-250 Vac/Vdc	NO	2 wires				
0.050.11 114-	NC	2	order No.			
0-250 Vac/Vdc	NC	2 wires	order No.			
0-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	and an Na			
			order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz	500 Hz
Start Up Delay	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Neight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	SHORT X2	
	NON FLUSH	
	NON FLUSH	
M8 conn	M12 conn	cable
3 mm	3 mm	3 mm
IS-08-H1-S1	IS-08-H1-S2	IS-08-H1-03
95B066960	95B066690	95B066480
IS-08-H2-S1	IS-08-H2-S2	IS-08-H2-03
95B066990	95B063301	95B066500
IS-08-H3-S1	IS-08-H3-S2	IS-08-H3-03
95B066910	95B066640	95B066420
IS-08-H4-S1	IS-08-H4-S2	IS-08-H4-03
95B063251	95B063241	95B066460
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
500 Hz	500 Hz	500 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
(-25 +60 C) IP67	IP67	(-23 +70 °C) IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
25		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



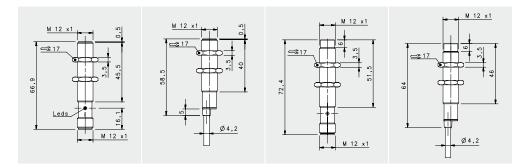
C	ONTACTS	CONFIGU	RATION		
A COMPANY OF A	Contacts numbers				
Aranapie	1	2	3	4	
(NO or NC)	+		2	NO/NC	

M8 3 pole

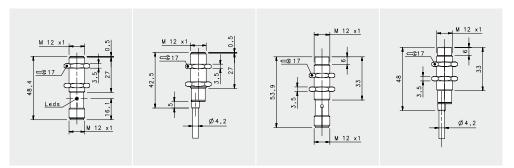


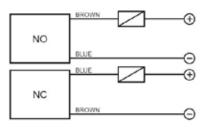
CONT	ACTS CON	FIGURAT	ION		
Narra and	Contacta numbers				
Available	1 SRCWN	BLUE	A BLACK		
NPN/PNP	+	-	NOINC		



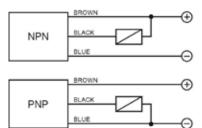


					STAN	DARD				
				FLU	JSH	NON F	LUSH			
				M12 conn	cable	M12 conn	cable			
IOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm	4 mm	4 mm			
10 20 1/4-	PNP/NPN	1		IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03			
10-30 Vdc	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040			
10-30 Vdc	PNP	3 wires		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03			
10-30 Vuc	NO	5 WIIES	order No.	95B061251	95B061241	95B061651	95B061641			
10-30 Vdc	PNP	3 wires		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03			
	NC	2 101152	order No.	95B061281	95B061271	95B061681	95B061671			
10-30 Vdc	NPN	3 wires		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03			
	NO	5 WIIES	order No.	95B061191	95B061181	95B061591	95B061581			
10-30 Vdc	NPN	3 wires		IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03			
	NC	5 WIICS	order No.	95B061221	95B061211	95B061621	95B061611			
10-30 Vdc	PNP	4 wires								
	NO-NC	- WIICS	order No.							
10-30 Vdc	NPN	4 wires								
	NO-NC	4 WIICS	order No.							
10-30 Vdc	NO-NC	2 wires		IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03			
	NO NC	2 WIIES	order No.	95B063931	95B064100	95B064140	95B064110			
20-250 Vac/Vdc	NO	2 wires								
20-230 Vac/ Vuc	NO	2 001105	order No.							
20-250 Vac/Vdc	NC 2 wire	2 wires	2 wires	2 wires	2 wires					
20-250 Vac/ Vuc	NC .	2 001105	order No.							
20-250 Vac	NO	2/3 wires								
20 200 140		2/ 5 1000	order No.							
10-30 Vdc	Analog	3 wires								
	0-20 mA	5 WIICS	order No.							
NAMUR amplifier	NAMUR	2 wires								
		2 111 05	order No.							
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)			
Residual Ripple				< 10%	< 10%	< 10%	< 10%			
Hysteresis				< 10%	< 10%	< 10%	< 10%			
Max. Output Currei	nt			200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)			
Min. Output Curre				> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)			
Residual Current				< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)			
Voltage Drop				< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)			
Operation Led				Yellow	Yellow	Yellow	Yellow			
Switching Frequer	ıcy			1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)			
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms			
Repeatability				< 3%	< 3%	< 3%	< 3%			
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)			
Electric Protection	I			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads			
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)			
Protection Degree				IP67	IP67	IP67	IP67			
Cable Length					2 m		2 m			
Cable Section					2/3/4 x 0,25 mm ²		2/3/4 x 0,25 mm ²			
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass			
Weight - Cable Out	put				110 g		110 g			
Weight - Connecto				60 g		60 g				

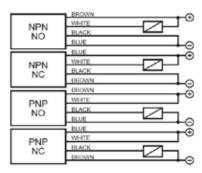




3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

a contractor	Contacts numbers				
Avenable	1	2	3	- 4	
NQ	+		-		
NC	2		+		

3 wires

110 g

C	DINTACTS	CONFIGU	RATION	
Accellance -	- and the second se	Contacts	numbers	
Avanacia	1	2	3	4
(NO or NC)	+		-	NO/NO

4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers				
Cuput	1	2	3	.4	
NPN NO	+	NO	-	1.54	
NPN NC	-	NO	+	-	
PNP NO	+	+	-	NO	
PNPNC	-	+	+	NC	

	SH	ORT	
FLI	JSH	NON	FLUSH
M12 conn	cable	M12conn	cable
2 mm	2 mm	4 mm	4 mm
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03
95B062051	95B062041	95B062451	95B062441
IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03
95B062081	95B062071	95B062481	95B062471
IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03
95B061991	95B061981	95B062391	95B062381
IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03
95B062021	95B062011	95B062421	95B062411
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,25 mm²		3 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
	110 -	F	110 -

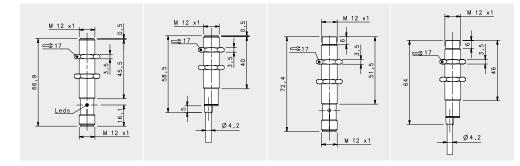
110 g

60 g

60 g

ODATALOGIC 21





					STAND	ARD X2		
				FL	USH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
OMINAL SWITCH	ING DISTAN	CE		4 1	mm	8 n	nm	
10-30 Vdc	PNP/NPN	4 wires		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03	
	NO-NC		order No.	95B067230	95B067190	95B067250	95B067210	
10-30 Vdc	PNP	3 wires		IS-12-E1-S2		IS-12-F1-S2		
	NO		order No.	95B067030		95B067020		
10-30 Vdc	PNP NC	3 wires	and an Ma					
	-		order No.					
0-30 Vdc	NPN NO	3 wires	order No.					
	-		order No.					
0-30 Vdc	NPN NC	3 wires	order No.					
	PNP		order No.					
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN		0.001 100.					
10-30 Vdc	NO-NC		order No.					
				IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03	
0-30 Vdc	NO-NC	IO-NC 2 wires	order No.	95B067240	95B067200	95B067260	95B067220	
		NO 2 wires						
0-250 Vac/Vdc	c/Vdc NO 2 w		order No.					
0-250 Vac/Vdc	NC	NC 2 wires	order No.					
0.0501/	NO 2/3wires	2/2 wiroc						
0-250 Vac		2/3 WIRes	order No.					
0-30 Vdc	Analog							
0-30 Vuc	0-20 mA		order No.					
NAMUR amplifier	NAMUR	2 wires						
Amon ampliner	NAMOR	2 WIICS	order No.					
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
lysteresis				< 10%	< 10%	< 10%	< 10%	
/Jax. Output Currer	nt			100 mA	100 mA	100 mA	100 mA	
/in. Output Curre								
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
oltage Drop				< 1,2 V (I=100mA)				
peration Led				Yellow	Yellow	Yellow	Yellow	
witching Frequer	icy			500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NO	
itart Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads				
lemperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
able Length								
able Section								
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Neight - Cable Out	put							
- Weight - Connector	Output			60 g	60 g	60 g	60 g	

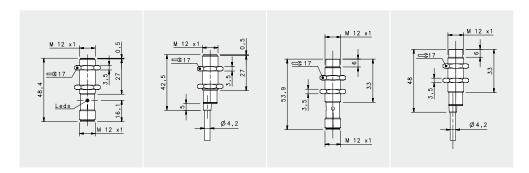
60 g

60 g

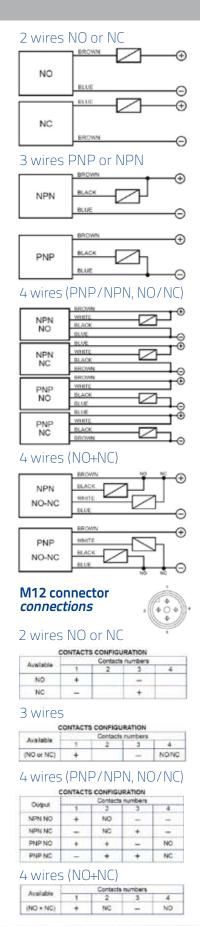
60 g

60 g

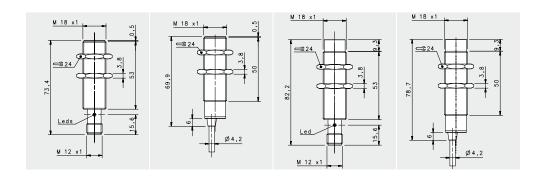
Weight - Connector Output



	SHO	RT X2	
FLL	JSH	NON F	FLUSH
M12 con	cable	M12 conn	cable
4 mm	4 mm	8 mm	8 mm
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03
95B063371	95B063361	95B063451	95B063441
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03
95B063391	95B063381	95B063471	95B063461
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03
95B063331	95B063321	95B063411	95B063401
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03
95B063351	95B063341	95B063431	95B063421
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03
95B062691	95B062681	95B062771	95B062761
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03
95B062671	95B062661	95B062751	95B062741
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
500 Hz/200 Hz (4 wires NO-NC)			
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,25 mm ²		3 x 0,25 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
	110 g		110 g
60 g		60 g	
		50 B	

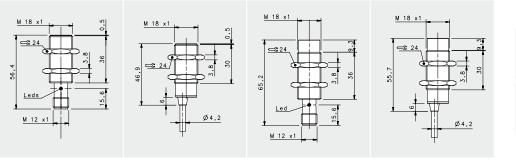




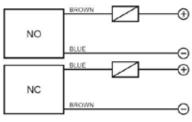


					STAN	DARD	
				FLU	ISH	NON FLUSH	
				M12 conn	cable	M12 conn	cable
IOMINAL SWITCH	ING DISTAN	Œ		5 mm	5 mm	8 mm	8 mm
10-30 Vdc	PNP/NPN	4 wires		IS-18-A0-S2	IS-18-A0-03	IS-18-C0-S2	IS-18-C0-03
10-30 vuc	NO-NC	4 WIIES	order No.	95B064260	95B064230	95B064280	95B064240
10-30 Vdc	PNP	3 wires		IS-18-A1-S2	IS-18-A1-03	IS-18-C1-S2	IS-18-C1-03
10-50 Vuc	NO	5 WIIES	order No.	95B061351	95B061341	95B061751	95B061741
10-30 Vdc	PNP	3 wires		IS-18-A2-S2	IS-18-A2-03	IS-18-C2-S2	IS-18-C2-03
.0-50 vuc	NC	5 WIIes	order No.	95B061371	95B061361	95B061771	95B061761
10-30 Vdc	NPN	2		IS-18-A3-S2	IS-18-A3-03	IS-18-C3-S2	IS-18-C3-03
10-30 Vac	NO	3 wires	order No.	95B061311	95B061301	95B061711	95B061701
0.201/4-	NPN	3 wires		IS-18-A4-S2	IS-18-A4-03	IS-18-C4-S2	IS-18-C4-03
10-30 Vdc	NC	5 Wiles	order No.	95B061331	95B061321	95B061731	95B061721
0-30 Vdc	PNP	1					
0-50 Vuc	NO-NC	4 wires	order No.				
10-30 Vdc	NPN	1					
10-30 Vac	NO-NC	4 wires	order No.				
0-30 Vdc	NO-NC	2 wires		IS-18-A9-S2	S-18-A9-03	IS-18-C9-S2	IS-18-C9-03
0-50 Vul	NU-NC	2 wires	order No.	95B063941	95B064300	95B064340	95B064310
0-250 Vac/Vdc	NO	2 wires					
20-250 Vac/ Vuc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac/ Vuc	NC.	2 wires	order No.				
20-250 Vac	NO	2/3 wires					
20-250 Val	NO	2/5 WIRS	order No.				
10-30 Vdc	Analog	3 wires					
10-50 Vuc	0-20 mA	5 WIIES	order No.				
IAMUR amplifier	NAMUR	Juviros					
IAMOR ampliner	NAMUR	2 wires	order No.				
Vominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Currei	nt			200 mA	200 mA	200 mA	200 mA

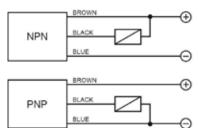
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current	> 1,6 mA (2wires ver.)			
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8V; < 6,5 V (2wires ver.)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)			
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2/3/4 x 0,25 mm²		2/3/4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		145g		145g
Weight - Connector Output	95g		95g	



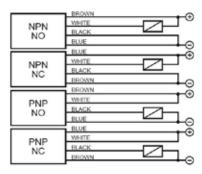
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

c	ONTACTS	CONFIGU	RATION	
Augustania		Contacts	numbers	
Aveidore	1	2	3	- 24
NO	+		-	
NC			+	

3 wires

C	ONTACTS	CONFIGU	RATION	
Aveilable		Contacts	numbers	-111
	.1	2	3	- 4
(NO or NC)	+		-	NO/NO

4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers			
Cuput	1	2	3	.4
NPN NO	+	NO	-	1.54
NPN NC	-	NO	+	-
PNP NO	+	+	-	NO
PNPNG	-	+	+	NC

	CU	ORT	
FLU	JSH	NON	LUSH
M12 conn	cable	M12 conn	cable
5 mm	5 mm	8 mm	8 mm
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03
95B062151	95B062141	95B062551	95B062541
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03
95B062171	95B062161	95B062571	95B062561
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03
95B062111	95B062101	95B062511	95B062501
IS-18-B4-S2	IS-18-B4-03	IS-18-D4-S2	IS-18-D4-03
95B062131	95B062121	95B062531	95B062521
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (l=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,25 mm²		3 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
	4/5-		4/5-

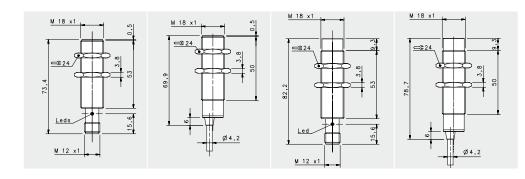
. 145g

---95g ----

95g

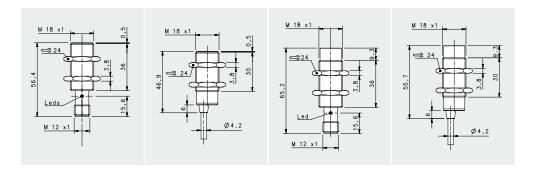
145g





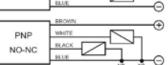
				STANDARD X2					
				FLUSH		NON FLUSH			
				M12 conn	cable	M12 conn	cable		
IOMINAL SWITCHING DISTANCE		8 m	8 mm		mm				
10-30 Vdc	PNP/NPN	4 wires		IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03		
10-30 Vac	NO-NC	4 wires	order No.	95B067310	95B067270	95B067330	95B067290		
10-30 Vdc	PNP	3 wires		IS-18-E1-S2		IS-18-F1-S2			
10-50 Vuc	NO	5 WIIes	order No.	95B067050		95B067040			
10-30 Vdc	PNP	3 wires							
10-30 Vuc	NC	5 wires	order No.						
10-30 Vdc	NPN	3 wires							
10-50 Vuc	NO	5 WIIes	order No.						
10-30 Vdc	NPN	3 wires							
10-30 Vuc	NC	5 wires	order No.						
10-30 Vdc	PNP	4 wires							
	NO-NC	4 WIIES	order No.						
10-30 Vdc	NPN	4 wires							
10-30 Vuc	NO-NC	4 WIICS	4 WIIES	4 WILES	order No.				
10-30 Vdc	NO-NC	2 wires		IS-18-E9-S2	IS-18-E9-03	IS-18-F9-S2	IS-18-F9-03		
10-30 Vac	NO-NC	2 WIICS	J-INC Z WITES	order No.	95B067320	95B067280	95B067340	95B067300	
20-250 Vac/Vdc	NO	2 wires							
20=250 Vac/ Vuc	NO	2 WIES	order No.						
20-250 Vac/Vdc	NC	2 wires							
20-250 Vac/ Vuc	NC.	2 WIES	order No.						
20-250 Vac	NO	2/3 wires							
20-230 Vac	NO	2/ 5 WIES	order No.						
10-30 Vdc	Analog	3 wires							
	0-20 mA	J WILES	order No.						
NAMUR amplifier	NAMUR	2 wires							
NAMON ampliner	NAMOR	2 WILES	order No.						
				the manual of the second		the second of the second			

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	400 Hz	400 Hz	100 Hz	100 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section				
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output			145g	145g
Weight - Connector Output	95g	95g		



	SHO	RT X2	
FLL	JSH	NON	FLUSH
M12 conn	cable	M12 conn	cable
8 mm	8 mm	14 mm	14 mm
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03
95B063531	95B063521	95B063611	95B063601
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03
95B063551	95B063541	95B063631	95B063621
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03
95B063491	95B063061	95B063571	95B063561
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03
95B063511	95B063501	95B063591	95B063581
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03
95B062731	95B062721	95B062811	95B064220
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03
95B062711	95B064200	95B062791	95B064210
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
400 Hz/100 Hz (4 wires NO-NC)			
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,25 mm²		3 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
	145g		145g
95g		95g	

2 wires NO or NC EROWN -① NO 611 Θ ELUE Ð NC Θ 3 wires PNP or NPN BROWN Ð NPN BLACK BLUE Θ BROWN Ð PNP BLACK \square BLUE Θ 4 wires (PNP/NPN, NO/NC) BROWN ÷ WHITE BLACK NPN NO DUDE BLUE BLACK NPN NC BROWN BROWN Ō PNP NO WHITE BLACK BLUE Θ BLUE Ð PNP NC WHITE BLACK \Box BROWN Θ 4 wires (NO+NC) BROWN Ð NPN BLACK WHITE NO-NC BLUE Θ



M12 connector connections

2 wires NO or NC

at the second se	Conta		numbers	
ervariacie	1	2	3	4
NO	9 F		-	
NC	-		+	

3 wires

	Add to be a company	CONFIGU	100 C C C C C C C C C C C C C C C C C C	
Available		Contacts	numbers	14
	1	2	3	4
(NO er NC)	+		-	NO/NO

4 wires (PNP/NPN, NO/NC)

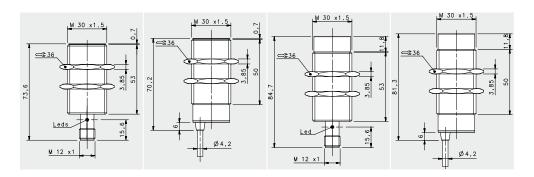
Country of Land		Contacts	numbers	
Output	1	2	3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NÓ	+	+	-	NO
PNP NC	-	+	+	NC

4 wires (NO+NC)

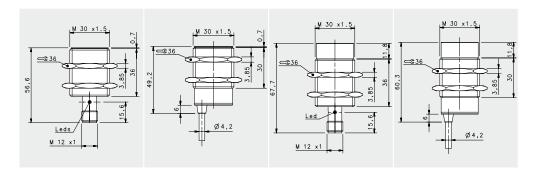
A contractor		Contacts	numbers	
Arelable	1	2	3	- 4
(NO + NC)	+	NC	-	NO

ODATALOGIC 27

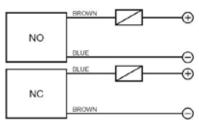




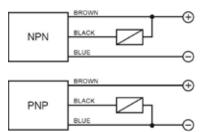
				STANDARD				
				FLU	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		10 mm	10 mm	15 mm	15 mm	
10.201/4-	PNP/NPN	(mines		IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B064490	95B064460	95B064510	95B064470	
40.001/1	PNP	<u> </u>		IS-30-A1-S2	IS-30-A1-03	IS-30-C1-S2	IS-30-C1-03	
10-30 Vdc	NO	3 wires	order No.	95B061431	95B061421	95B061831	95B061821	
40.201/4-	PNP	2		IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03	
10-30 Vdc	NC	3 wires	order No.	95B061451	95B061441	95B061851	95B061841	
10.201/4-	NPN	2		IS-30-A3-S2	IS-30-A3-03	IS-30-C3-S2	IS-30-C3-03	
10-30 Vdc	NO	3 wires	order No.	95B061391	95B061381	95B061791	95B061781	
40.201/4-	NPN	2		IS-30-A4-S2	IS-30-A4-03	IS-30-C4-S2	IS-30-C4-03	
10-30 Vdc	NC	3 wires	order No.	95B061411	95B061401	95B061811	95B061801	
40.201/4-	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
40.001/1	NPN							
10-30 Vdc	NO-NC	4 wires	order No.					
10.001/1		- ·		IS-30-A9-S2	IS-30-A9-03	IS-30-C9-S2	IS-30-C9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B064570	95B064530	95B064590	95B064550	
20-250 Vac/Vdc	NO	2 wires	order No.					
		Juviros						
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/3 wires	order No.					
	Analog							
10-30 Vdc	0-20 mA	3 wires	order No.					
	NAME	- ·						
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Curre	nt.			200mA; 100 mA (2wires)				
Min. Output Curre				> 1,6 mA (2wires)				
Residual Current	iii.			< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA	
Voltage Drop				< 1,8V; < 6,5 V (2wires)				
Operation Led				Yellow	Yellow	Yellow	Yellow	
Switching Frequer	ncv			300 Hz/250 Hz (2 wires NO-NC)			300 Hz/250 Hz (2 wires NO-NC)	
Start Up Delay	icy			< 50 ms	< 50 ms	< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads				
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				(-25 +70 C) IP67	(-25 +70 °C) IP67	(-25 +70 C) IP67	(-25 +70 °C) IP67	
Cable Length				IP67	2 m	IP67		
Cable Section					2 m 2/3/4 x 0,25 mm²		2 m 2/3/4 x 0,25 mm²	
Housing Material				 Nickel-plated brass	Nickel-plated brass	 Nickel-plated brass	Nickel-plated brass	
Weight - Cable Out	out			NICKEI-PIATEO DRASS		NICKEI-PIATED DRASS	•	
Weight - Cable Out					210 g		210 g 	
weight - Connecto	output			170 g		170 g		



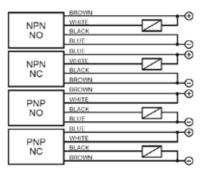
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

A Collector		Contacts	numbers	
Avalable	X	2	3	- 4
NO	+		-	
NC	<u> </u>		+	
- 101				

3 wires

C	ONTACT	S CONFIGU	RATION	
Availatie		Contacts	numbers	
	.1	2	3	4
(NO or NO)	+		-	NO/NC

4 wires (PNP/NPN, NO/NC)

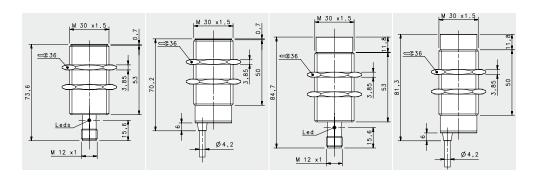
Output		Contacts	numbers	
Output		2	3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NC
PNP NC	-	+	+	NC

		ORT			
ELL	JSH	NON FLUSH			
M12 conn	cable	M12 conn	cable		
10 mm	10 mm	15 mm	15 mm		
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03		
95B062231 IS-30-B2-S2	95B062221	95B062631 IS-30-D2-S2	95B062621		
	IS-30-B2-03		IS-30-D2-03		
95B062251	95B062241	95B062651	95B062641		
IS-30-B3-S2 95B062191	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03		
	95B062181	95B062591	95B062581		
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03		
95B062211	95B062201	95B062611	95B062601		
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
< 10%	< 10%	< 10%	< 10%		
< 10%	< 10%	< 10%	< 10%		
200 mA	200 mA	200 mA	200 mA		
< 10 mA	< 10 mA	< 10 mA	< 10 mA		
< 1,8 V (I=100mA)					
Yellow	Yellow	Yellow	Yellow		
300 Hz	300 Hz	300 Hz	300 Hz		
< 50 ms	< 50 ms	< 50 ms	< 50 ms		
< 3%	< 3%	< 3%	< 3%		
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Against polarity reversal inductive loads					
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)		
IP67	IP67	IP67	IP67		
	2 m		2 m		
	3 x 0,25 mm²		3 x 0,25 mm²		
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
	210 g		210 g		
170 ~	-	170 ~			

170 g

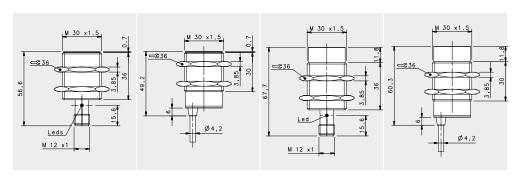
170 g



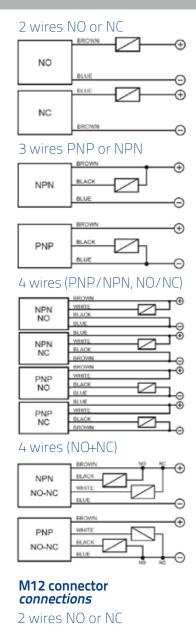


				STANDARD X2				
				FLL	ISH	NON-FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		15mm	15mm	20 mm	20 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	IS-30-E0-S2 95B067390	IS-30-E0-03 95B067350	IS-30-F0-S2 95B067410	IS-30-F0-03 95B067370	
10-30 Vdc	PNP NO	3 wires	order No.	IS-30-E1-S2 95B067060				
10-30 Vdc	PNP NC	3 wires	order No.					
10-30 Vdc	NPN NO	3 wires	order No.					
10-30 Vdc	NPN NC	3 wires	order No.					
10-30 Vdc	PNP NO-NC	4 wires	order No.					
10-30 Vdc	NPN NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires	order No.	IS-30-E9-S2 95B067400	IS-30-E9-03 95B067360	IS-30-F9-S2 95B067420	IS-30-F9-03 95B067380	
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/3 wires	order No.					
10-30 Vdc	Analog 0-20 mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires						
			order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 6,5 V (I=100mA)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	200 Hz/100 Hz (2 wires NO-NC)			
Start Up Delay	< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section				
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output				
Weight - Connector Output	170 g	170 g	170 g	170 g



	SHOI	SHORT X2					
FLU			LUSH				
M12 conn	cable	M12 conn	cable				
15mm	15mm	20 mm	20 mm				
IS-30-G1-S2	IS-30-G1-03	IS-30-H1-S2	IS-30-H1-03				
95B063691	95B063681	95B063771	95B063761				
IS-30-G2-S2	IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03				
95B063711	95B063701	95B063791	95B063781				
IS-30-G3-S2	IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03				
95B063651	95B063641	95B063731	95B063721				
IS-30-G4-S2	IS-30-G4-03	IS-30-H4-S2	IS-30-H4-03				
95B063671	95B063661	95B063751	95B063741				
IS-30-G5-S2	IS-30-G5-03	IS-30-H5-S2	IS-30-H5-03				
95B063831	95B063821	95B064450	95B064420				
IS-30-G6-S2	IS-30-G6-03	IS-30-H6-S2	IS-30-H6-03				
95B064430	95B064400	95B064440	95B064410				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%	< 10%	< 10%				
< 10%	< 10%	< 10%	< 10%				
200 mA	200 mA	200 mA	200 mA				
< 10 mA	< 10 mA	< 10 mA	< 10 mA				
< 1,2 V (l=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow	Yellow	Yellow				
200 Hz	200 Hz	200 Hz	200 Hz				
< 75 ms	< 75 ms	< 75 ms	< 75 ms				
< 3%	< 3%	< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)				
Against polarity reversal inductive loads							
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)				
IP67	IP67	IP67	IP67				
	2 m		2 m				
	3 x 0,25 mm²		3 x 0,25 mm²				
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass				
	210 g		210 g				
170 g		170 g					



a second	Contacts numbers				
Available	1	2	3	4	
NO	+		-		
NC	-		+		

3 wires

0	ONTACTS	CONFIGU	RATION	
ACCESSION OF T		Contacts	numbers	
Avalable	1	2	3	4
(NO or NC)	+		140	NO/NO

4 wires (PNP/NPN, NO/NC)

Cuture .		Contacts	numbers	
copu	1	2	3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NC
PNPNC	-	+	+	NC

4 wires (NO+NC)

Autobala		Contacts	numbers	
ALBIRDIA	1	2	3	- 4
(NO + NC)	+	NC	-	NO

STAINLESS STEEL

Stainless Steel housing Standard length Short length Normal and double range operating distance Operating distance 0.8 ... 20 mm M4, M5, M6,5, M8, M12, M18, M30 Cable, M8 or M12 connector 3 wires PNP, NPN, NO, NC IP69K protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

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"M12/18/30 models are Diversey and ECOLAB tested"



M12/18/30 FLUSH models are ATEX certified I I 3G EX nA II T6 I I 3D EX tD A22 IP67 T85°C



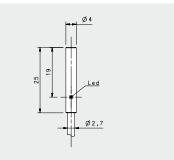
Each Stainless Steel model is IP69K tested M12/18/30 models are IP69K certified



STAINLESS STEEL

STAINLESS STEEL M4

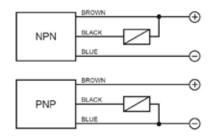




				STANDARD
				FLUSH
				cable
NOMINAL SWITCH	ING DISTAN	CE		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires		IS-04-A1-03
	PNP		order No.	95B061011
10-30 Vdc	NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	IS-04-A3-03 95B061001
10-30 Vdc	NPN NC	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires		
			order No.	
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3 wires		
20-250 Vac	NO	2/ 5 Wiles	order No.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
NAMUR amplifier	NAMUR	2 wires		
	MAMOR	2 101105	order No.	

Nominal Voltage	10-30 Vdc (-15/10%)
Residual Ripple	< 10%
Hysteresis	< 15%
Max. Output Current	100 mA
Min. Output Current	
Residual Current	< 0,01 mA
Voltage Drop	< 1,5 V
Operation Led	Yellow
Switching Frequency	2000 Hz
Start Up Delay	
Repeatability	< 1%
Short Circuit Protection	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)
Protection Degree	IP69K
Cable Length	2 m (PUR)
Cable Section	3x 0,15 mm²
Housing Material	Stainless-Steel
Weight - Cable Output	50 g
Weight - Connector Output	

3 wires PNP or NPN



M8 3 pole

 •]; 			
\bigcirc			
CONT	ACTS CON	FIGURAT	
CONT Available			

STAINLESS STEEL M5



Electric Protection

Temperature Limit

Protection Degree

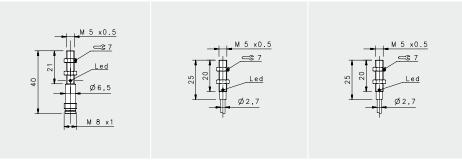
Housing Material

Weight - Cable Output

Weight - Connector Output

Cable Length

Cable Section



Against polarity reversal

inductive loads (-25 ... +70 °C)

IP69K

2 m (PUR)

3x 0,15 mm²

Stainless-Steel

25g

				STAN	DARD	STANDARD X2
				FLU		FLUSH
				M8 conn	cable	cable
NOMINAL SWITCH	ING DISTANC	E		0,8 mm	0,8 mm	1,5 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.	IS-05-A1-S1 95B061051	IS-05-A1-03 95B061041	
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.	IS-05-A3-S1 95B061031	IS-05-A3-03 95B061021	IS-05-E3-03 95B065400
10-30 Vdc	NPN NC	3 wires	order No.		IS-05-A4-03 95B065420	
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
			order No.			
Nominal Voltage Residual Ripple				10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%
Hysteresis				< 15%	< 15%	< 15%
Max. Output Curre Min. Output Curre				100 mA 	100 mA 	100 mA
Residual Current	inc			< 0,01 mA	< 0,01 mA	< 0,01 mA
Voltage Drop				< 1,5V	< 1,5V	< 1,5V
Operation Led Switching Freque	ncv			Yellow 2000 Hz	Yellow 2000 Hz	Yellow 2000 Hz
Start Up Delay	iley.					
Repeatability				< 1%	< 1%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
				A sector star star its annual	A sector star star star star second	A sector stars le site sector se l

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP69K

Stainless-Steel

14g

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP69K

2 m (PUR)

3x 0,15 mm²

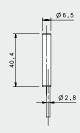
Stainless-Steel

25g

STAINLESS STEEL M6.5







SHORT STAINLESS STEEL

				FLU	ISH
				M8 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires			
			order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-65-M1-S1 95B066080	IS-65-M1-03 95B064760
	PNP			IS-65-M2-S1	IS-65-M2-03
10-30 Vdc	NC	3 wires	order No.	95B066120	95B064800
	NPN			IS-65-M3-S1	IS-65-M3-03
10-30 Vdc	NO	3 wires	order No.	95B066000	95B064680
40.201/4-	NPN	2		IS-65-M4-S1	IS-65-M4-03
10-30 Vdc	NC	3 wires	order No.	95B066040	95B064720
40.201/4-	PNP				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	/dc NPN NO-NC 4 wire	(wires			
10-50 Vuc		4 wires	order No.		
10-30 Vdc	NO-NC 2 wires	2 wires			
10-50 Vuc	NU-NC	2 wires	order No.		
20-250 Vac/Vdc	0 Vac/Vdc NO 2 v	2 wires			
20-230 vac/ vac	NO	2 WIIES	order No.		
20-250 Vac/Vdc	NC	2 wires			
20 250 1407 140	J-250 Vac/ Vdc NC 2 V	2 WIIC5	order No.		
20-250 Vac	NO	2/3 wires			
20 250 Vac	NO	2/ 5 11105	order No.		
10-30 Vdc	Analog	3 wires			
	0-20 mA	5 11105	order No.		
NAMUR amplifier	NAMUR	2 wires			
			order No.		
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%
Hysteresis				< 10%	< 10%
, Max. Output Currei	nt			200 mA	200 mA
Min. Output Curre					
Residual Current				< 10 mA	< 10 mA
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow
Switching Frequer	псу			1000 Hz	1000 Hz
Start Up Delay				< 50 ms	< 50 ms
Repeatability				< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				ІР69К	ІР69К
Cable Length					
Cable Section					3x 0,14 mm²
Housing Material				Stainless-Steel	Stainless-Steel
Weight - Cable Out	put				80 g
Weight Connecto				10 -	

40 g

1

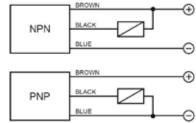
Weight - Connector Output



SHORT STAINLESS STEEL

SHORT STAINLESS STEEL						
NON FLUSH						
M8 conn	cable					
2 mm	2 mm					
 IS-65-N1-S1	 IS-65-N1-03					
958066240	958064920					
IS-65-N2-S1	IS-65-N2-03					
95B066280	958064960					
IS-65-N3-S1	IS-65-N3-03					
95B066160	95B064840					
IS-65-N4-S1	IS-65-N4-03					
95B066200	95B064880					
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)					
< 10%	< 10%					
< 10%	< 10%					
200 mA	200 mA					
< 10 mA	< 10 mA					
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)					
Yellow	Yellow					
1000 Hz	1000 Hz					
< 50 ms	< 50 ms					
< 3%	< 3%					
Present (self-resetting)	Present (self-resetting)					
-	-					
Against polarity reversal inductive loads	Against polarity reversal inductive loads					
(-25 +70 °C)	(-25 +70 °C)					
IP69K	IP69K					
	3x 0,14 mm²					
Stainless-Steel	Stainless-Steel					
	80 g					
40 g						

3 wires PNP or NPN



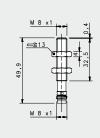
M8 3 pole

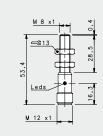


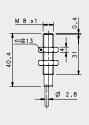
CONT	ACTS CON	FIGURAT	ION
an a	Cor	tects num	bers .
Available	1 SRCWN	BLUE	A BLACK
NPN/PNP	+	-	NOINC

STAINLESS STEEL M8





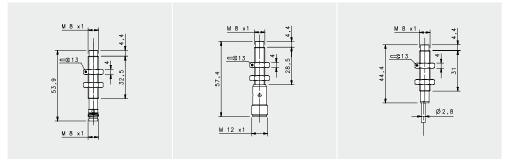




SHORT STAINLESS STEEL

				FLUSH			
				M8 conn	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	Œ		1,5 mm	1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	and an Nia				
			order No.				
10-30 Vdc	PNP NO	3 wires		IS-08-M1-S1	IS-08-M1-S2	IS-08-M1-03	
			order No.	958066870	958066600	958066380	
10-30 Vdc	PNP	3 wires		IS-08-M2-S1	IS-08-M2-S2	IS-08-M2-03	
	NC		order No.	95B066900	95B066630	95B066600	
10-30 Vdc	NPN	3 wires		IS-08-M3-S1	IS-08-M3-S2	IS-08-M3-03	
10 50 100	NO	5 11105	order No.	95B066820	95B066540	95B066340	
10-30 Vdc	NPN	3 wires		IS-08-M4-S1	IS-08-M4-S2	IS-08-M4-03 95B066360 	
	NC	Swites	order No.	95B066840	95B066570	95B066360	
10-30 Vdc	PNP	VC 4 wires	/ wiroc				
10-30 vac	NO-NC		order No.				
10-30 Vdc	NPN	(
10-30 Vac	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires					
10-30 Vac	NU-NC	2 wires	order No.				
20.250.1/ ///		_ ·					
20-250 Vac/Vdc	NO	2 wires	order No.				
20.250.1	NC	<u> </u>					
20-250 Vac/Vdc	NC	2 wires	order No.				
20.2501/		- /- ·					
20-250 Vac	NO	2/3 wires	order No.				
	Analog						
10-30 Vdc	0-20 mA	3 wires	order No.				
		2					
NAMUR amplifier	NAMUR	2 wires	order No.				

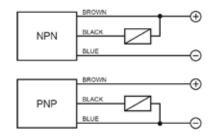
Nominal Voltage	10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc		10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K	IP69K
Cable Length			
Cable Section			3x 0,14 mm²
Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



SHORT STAINLESS STEEL

	SHURI STAINLESS SIEE	L
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-N1-S1	IS-08-N1-S2	IS-08-N1-03
958066980	958066710	95B066490
IS-08-N2-S1	IS-08-N2-S2	IS-08-N2-03
958067010	95B066730	95B066510
IS-08-N3-S1	IS-08-N3-S2	IS-08-N3-03
95B066930	95B066660	95B066440
IS-08-N4-S1	IS-08-N4-S2	IS-08-N4-03
958066950	958066680	95B066470
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K	IP69K
		3x 0,14 mm²
Stainless-Steel	Stainless-Steel	Stainless-Steel
		80 g
35g	55g	
55 ₆		

3 wires PNP or NPN



M12 3 pole



CONTACTS CONFIGURATION					
A COMPANY OF A	1112	Contacts	numbers	N 011	
Available	1	2	3	4	
(NO or NC)	+		2	NO/NC	

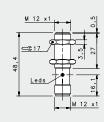
M8 3 pole

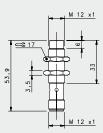
	4		
1		1	
1	•	٠).
			/
	-	/	

CONT	ACTS CON	FIGURAT	ION	
Nersenan -	Contacts numbers			
Available	1 SRCWN	BLUE	4 BLACK	
NPN/PNP	+	-	NOINC	

STAINLESS STEEL M12

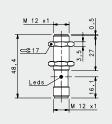


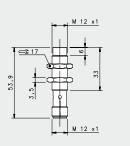




				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	IING DISTAN	CE		2 mm	4 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	N -			
	PNP		order No.	 IS-12-M1-S2	 IS-12-N1-52	
10-30 Vdc	NO	3 wires	order No.	95B060240	958060280	
	PNP		order No.	IS-12-M2-S2	IS-12-N2-S2	
10-30 Vdc	NC	3 wires	order No.	958060250	958060290	
	NPN		order No.	IS-12-M3-S2	IS-12-N3-52	
10-30 Vdc	NO	3 wires	order No.	958060260	95B060300	
	NPN			IS-12-M4-S2	IS-12-N4-S2	
10-30 Vdc	NC	3 wires	order No.	95B060270	95B060310	
10 2014	PNP					
10-30 Vdc	NO-NC	4 wires	order No.			
40.201/4-	NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires				
10-50 Vuc	NU-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac/ Vuc	NO	2 WIIes	order No.			
20-250 Vac/Vdc	NC	2 wires				
20 230 140, 140	NC .	ZWIICS	order No.			
20-250 Vac	NO	2/3 wires				
20 200 140		2. 5 11	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Weight - Cable Output		
Weight - Connector Output	60 g	60 g





SHORT STAINLESS STEEL X2					
FLUSH	NON FLUSH				
M12 conn	M12 conn				
4 mm	8 mm				
IS-12-01-52	IS-12-P1-S2				
95B060000	958060040				
IS-12-02-52	IS-12-P2-S2				
95B060010	958060050				
IS-12-03-52	IS-12-P3-S2				
958060020	958060060				
IS-12-04-52	IS-12-P4-S2				
95B060030	95B060070				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%				
< 10%	< 10%				
200 mA	200 mA				
< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow				
500 Hz	500 Hz				
< 75 ms	< 75 ms				
< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)				
Against polarity reversal inductive loads	Against polarity reversal inductive loads				
(-25 +70 °C)	(-25 +70 °C)				
ІР69К	IP69K				
Stainless-Steel	Stainless-Steel				
60 g	60 g				
	U				

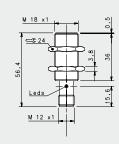
M12 3 pole

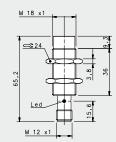


CONTACTS CONFIGURATION				
Available	19.53	Contacts	numbers	0.1. (1)
	1	2	3	4
(NO or NC)	+		-	NO/NC

STAINLESS STEEL M18

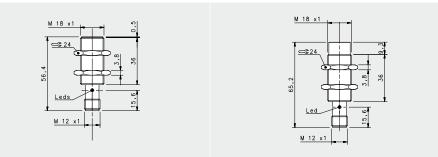






				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		5 mm	8 mm	
10-30 Vdc	PNP/NPN	4 wires				
10 50 142	NO-NC	4 WICS	order No.			
10-30 Vdc	PNP	3 wires		IS-18-M1-S2	IS-18-N1-S2	
10 50 140	NO	5 10105	order No.	95B060320	95B060360	
10-30 Vdc	PNP	3 wires		IS-18-M2-S2	IS-18-N2-S2	
10-30 vac	NC	JWIES	order No.	95B060330	95B060370	
10-30 Vdc	NPN	3 wires		IS-18-M3-S2	IS-18-N3-S2	
10-30 Vuc	NO	5 WIES	order No.	95B060340	95B060380	
10-30 Vdc	NPN	3 wires		IS-18-M4-S2	IS-18-N4-S2	
10-50 Vuc	NC	3 wires	order No.	95B060350	95B060390	
10-30 Vdc	PNP	4 wires				
10-50 Vuc	NO-NC	4 WIIes	order No.			
10-30 Vdc	NPN	4 wires				
10-50 Vuc	NO-NC	4 WIIes	order No.			
10-30 Vdc	NO-NC	2 wires				
10-50 Vuc	NO-NC	2 WIES	order No.			
20-250 Vac/Vdc	NO	2				
20-250 Vac/ Vuc	NO	2 wires	order No.			
20.250.1//1/4-	NG	2				
20-250 Vac/Vdc	NC	2 wires	order No.			
20.250.1/22	NO	2/2				
20-250 Vac	NO	2/3 wires	order No.			
40.001/1-	Analog	2				
10-30 Vdc	0-20 mA	A 3 wires	order No.			
		2				
NAMUR amplifier	NAMUR	2 wires	order No.			

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Weight - Cable Output		
Weight - Connector Output	95g	95g



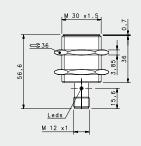
SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
8 mm	14 mm
IS-18-01-52	IS-18-P1-S2
95B060080	95B060120
IS-18-02-52	IS-18-P2-S2
95B060090	95B060130
IS-18-03-52	IS-18-P3-S2
958060100	958060140
IS-18-04-52	IS-18-P4-S2
95B060110	95B060150
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
200 Hz	200 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
95g	95g

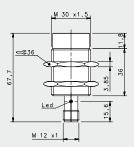
M12 3 pole

C	ONTACTS	CONFIGU	RATION			
Available	Contacts numbers					
Araliscie	1	2	3	4		
(NO or NC)	+		2	NO/NC		

STAINLESS STEEL M30

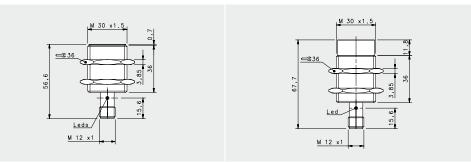






				SHORT STAINLESS STEEL			
				FLUSH	NON FLUSH		
				M12 conn	M12		
NOMINAL SWITCH	ING DISTAN	Œ		10 mm	15 mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.	IS-30-M1-52 95B060400	IS-30-N1-S2 95B060440		
10-30 Vdc	PNP	3 wires	order No.	IS-30-M2-52 95B060410	IS-30-N2-S2 95B060450		
10-30 Vdc	NPN	3 wires		IS-30-M3-S2	IS-30-N3-S2		
10-30 Vdc	NO NPN	3 wires	order No.	95B060420 IS-30-M4-S2	95B060460 IS-30-N4-S2		
10-30 Vdc	NC PNP	4 wires	order No.	95B060430	95B060470		
	NO-NC NPN		order No.				
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3 wires	order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
			order NO.				

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	300 Hz	300 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Weight - Cable Output		
Weight - Connector Output	170 g	170 g



SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
15 mm	20 mm
IS-30-01-52	IS-30-P1-S2
95B060160	95B060200
IS-30-02-52	IS-30-P2-S2
95B060170	95B060210
IS-30-03-52	IS-30-P3-S2
95B060180	95B060220
IS-30-04-52	IS-30-P4-S2
95B060190	95B060230
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
100 Hz	100 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal inductive loads
inductive loads	
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
170 g	170 g

M12 3 pole



C	ONTACT	S CONFIGU	RATION	
Available		Contacts	numbers	
Arasiocie	1	2	3	4
(NO or NC)	+		2	NO/NC

METAL FACE

Stainless Steel housing Stainless Steel active face Standard length 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5



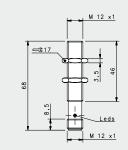


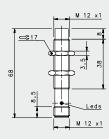


ODATALOGIC 47

METAL FACE M12







30 g

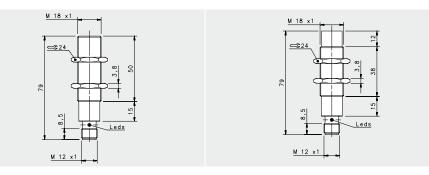
				МЕТА	L FACE
				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITCH	ING DISTAN	CE		2 mm	4 mm
10.201/4-	PNP/NPN	(
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires		IS-12-I1-52	IS-12-L1-S2
10-30 Vuc	NO	5 WIIES	order No.	95B065340	95B063871
0-30 Vdc	PNP	3 wires			
0 50 142	NC	5 101105	order No.		
0-30 Vdc	NPN	3 wires			
0 50 140	NO	5 111 25	order No.		
0-30 Vdc	NPN	3 wires			
	NC		order No.		
0-30 Vdc	PNP	4 wires			
	NO-NC		order No.		
10-30 Vdc	NPN	4 wires			
	NO-NC		order No.		
10-30 Vdc	NO-NC	2 wires	and an Ma		
			order No.		
0-250 Vac/Vdc	NO	2 wires	audau Na		
			order No.		
0-250 Vac/Vdc	NC	2 wires	audau Na		
			order No.		
0-250 Vac	NO	2/3 wires	order No.		
	Anglen		order No.		
0-30 Vdc	Analog 0-20 mA	3 wires	order No.		
	0 20 11/1		order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
Iominal Voltage				10-30 Vdc	10-30 Vdc
esidual Ripple				< 10%	< 10%
lysteresis				< 15%	< 15%
/lax. Output Curre	nt			200 mA	200 mA
/in. Output Curre	ent				
Residual Current				< 0,01 mA	< 0,01 mA
oltage Drop				< 1,5 V (I=100mA)	< 1,5 V (I=100mA)
Operation Led				Present	Present
Switching Freque	ncy			2000 Hz	1000 Hz
tart Up Delay					
Repeatability				< 1%	< 1%
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP67	IP67
able Length					
able Section					
lousing Material				Stainless-Steel	Stainless-Steel
Veight - Cable Out					
Maight Connecto	v Output			20 a	20 a

30 g

Weight - Connector Output

METAL FACE M18





				METAL FACE		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		5 mm	8 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.	IS-18-I1-52 95B065350	IS-18-L1-S2 95B063881	
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis Max Output Currer				< 15% 200 mA	< 15% 200 mA	

Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
Min. Output Current	> 1,6 mA	> 1,6 mA
Residual Current	< 0,01 mA	< 0,01 mA
Voltage Drop	< 1,5 V	< 1,5 V
Operation Led	Present	Present
Switching Frequency	1000 Hz	500 Hz
Start Up Delay		
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Weight - Cable Output		
Weight - Connector Output	95g	95g

WELD FIELD IMMUNE

Stainless Steel housing PTFE active face Standard length Operating distance 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

 REDUCTION FACTOR

 ALUMINUM (25°C)
 STAINLESS STEEL AISI316L
 COPPER
 BRAS

 Average red. Fact.
 0,45
 0,85
 0,4
 0,5

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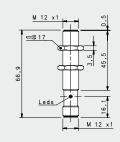


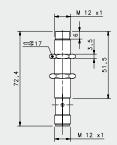


ODATALOGIC 51

WELD FIELD IMMUNE M12







				FIELD IMMUNE S	STAINLESS STEEL	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		2 mm	4 mm	
10-30 Vdc	PNP/NPN NO-NC 4 wires		andar Na			
10-30 Vdc	PNP	3 wires	order No.	 IS-F12-S1-S2	 IS-F12-T1-S2	
	NO	5 Wiles	order No.	95B065360	95B065370	
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
	NPN	_ ·	order No.			
10-30 Vdc	NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	and an Na			
	NPN		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
0-30 Vdc	NO-NC	2 wires				
		2 111105		order No.		
0-250 Vac/Vdc	NO	2 wires	order No.			
0-250 Vac/Vdc	NC	2 wires	2 wires			
0 250 Vac/ Vac	NC .			order No.		
0-250 Vac	NO	2/3 wires				
			order No.			
0-30 Vdc	Analog 0-20 mA	3 wires	order No.			
		2				
IAMUR amplifier	NAMUR	2 wires	order No.			
Iominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
lysteresis				< 15%	< 15%	
/lax. Output Currei	nt			200 mA	200 mA	
lin. Output Curre				< 10mA	< 10mA	
esidual Current				< 0,1 mA	< 0,1 mA	
oltage Drop				< 1,5V	< 1,5V	
peration Led				Present	Present	
witching Frequer	ıcy			2000 Hz	1000 Hz	
tart Up Delay				< 0,1 ms	< 0,1 ms	
Repeatability				< 1%	< 1%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Tomporaturo Limit				(_25 ±70 °C)	(_25 ±70 °C)	

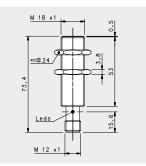
Min. Output Current	< 10mA	< 10mA
Residual Current	< 0,1 mA	< 0,1 mA
Voltage Drop	< 1,5V	< 1,5V
Operation Led	Present	Present
Switching Frequency	2000 Hz	1000 Hz
Start Up Delay	< 0,1 ms	< 0,1 ms
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Weight - Cable Output		
Weight - Connector Output	25g	23g

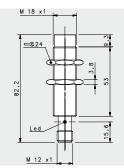
WELD FIELD IMMUNE M18



Weight - Cable Output

Weight - Connector Output





					STAINLESS STEEL	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		5 mm	8 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-50 Vuc	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires		IS-F18-S1-S2	IS-F18-T1-S2	
10-30 Vac	NO	JWIES	order No.	95B065380	95B065390	
10-30 Vdc	PNP	3 wires				
10 50 140	NC	Swites	order No.			
10-30 Vdc	NPN	3 wires				
10 50 100	NO	5 111 25	order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP	4 wires				
	NO-NC		order No.			
10-30 Vdc	NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	NO	2 wires				
		2 wires	order No.			
20-250 Vac/Vdc	NC		andan Na			
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
			order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	0 20 1114		order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
			order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Curre	nt			200 mA	200 mA	
Min. Output Curre				< 10mA	< 10mA	
Residual Current				< 0,1 mA	< 0,1 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				Present	Present	
Switching Frequer	ncv			1000 Hz	500 Hz	
Start Up Delay	,			< 0,2 ms	< 0,5 ms	
Repeatability				< 1%	< 1%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
					Jidililess-Sieel	

94g

----91g

INDUCTIVE AC

Nickel-plated Brass housing Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5



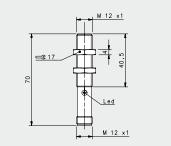


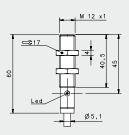


ODATALOGIC 55

INDUCTIVE AC M12







				STANDARD VAC				
					JSH			
				M12 conn	cable			
DMINAL SWITCH		LE		2 mm	2 mm			
0-30 Vdc	PNP/NPN NO-NC	4 wires	order No.					
	PNP		UTUELINU.					
0-30 Vdc	NO	3 wires	order No.					
	PNP							
)-30 Vdc	NC	3 wires	order No.					
)-30 Vdc	NPN	3 wires						
-50 Vuc	NO	5 wires	order No.					
-30 Vdc	NPN	3 wires						
50 142	NC	Junes	order No.					
)-30 Vdc	PNP	4 wires						
	NO-NC		order No.					
)-30 Vdc	NPN NO-NC	4 wires	order No.					
	NO-NC		order No.					
)-30 Vdc	NO-NC	2 wires	order No.					
			order No.					
-250 Vac/Vdc	NO	2 wires	order No.					
		2 wires						
-250 Vac/Vdc	NC		order No.					
250.1/		2/3 wires		IS-12-A15-S2	IS-12-A15-03			
-250 Vac	NO		order No.	95B060690	95B060680			
-30 Vdc	Analog	mA Swiles						
-30 vuc	0-20 mA		order No.					
AMUR amplifier	NAMUR							
anon ampiner		2 101105	order No.					
				20+250 Vac (50,60 Hz)				
ominal Voltage sidual Ripple				< 10%	20+250 Vac (50,60 Hz) < 10%			
steresis				< 10%	< 10%			
ax. Output Currer	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A			
n. Output Curre				20 mA	20 mA			
sidual Current				< 0,7 mA	< 0,7 mA			
ltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)			
eration Led				Yellow	Yellow			
vitching Frequer	псу			25 Hz	25 Hz			
art Up Delay				< 300 ms	< 300 ms			
peatability				5%	5%			
ort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)			
ectric Protection	I			Against polarity reversal inductive loads	Against polarity reversal inductive loads			
mperature Limit				(-25 +70 °C)	(-25 +70 °C)			
otection Degree				IP67	IP67			
ble Length					2 m			
ble Section					2 x 0,25 mm²			
ousing Material				Nickel-plated brass	Nickel-plated brass			
eight - Cable Out					145g			
eight - Connecto	r Output			95g				

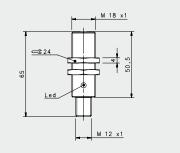
INDUCTIVE AC M18

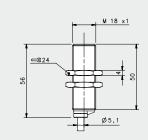


Housing Material

Weight - Cable Output

Weight - Connector Output





STANDARD VAC

				FLUSH			
				M12 conn	cable		
IOMINAL SWITCH	IING DISTAN	CE		5 mm	5 mm		
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC	4 101125	order No.				
10-30 Vdc	PNP NO	3 wires	order No.				
	PNP		order No.				
10-30 Vdc	NC	3 wires	order No.				
10-30 Vdc	NPN	3 wires					
	NO		order No.				
10-30 Vdc	NPN NC	3 wires	order No.				
10 2014-	PNP						
10-30 Vdc	NO-NC	4 wires	order No.				
10.201/4-	NPN	(
10-30 Vdc	NO-NC	4 wires	order No.				
		2					
10-30 Vdc	NO-NC	2 wires	order No.				
		2 wires					
0-250 Vac/Vdc	NO		order No.				
	NC	2 wires					
20-250 Vac/Vdc			order No.				
	NO	2/3 wires		IS-18-A15-S2	IS-18-A15-03		
20-250 Vac			order No.	95B060780	95B060770		
	Analog 0-20 mA	3 wires					
0-30 Vdc			order No.				
			oraci ivo.				
IAMUR amplifier	NAMUR	2 wires	order No.				
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)		
Residual Ripple				< 10%	< 10%		
lysteresis				< 10%	< 10%		
/ax. Output Currei	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A		
/lin. Output Curre				20 mA	20 mA		
Residual Current				< 0,7 mA	< 0,7 mA		
oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)		
peration Led				Yellow	Yellow		
witching Frequer	ncv			25 Hz	25 Hz		
tart Up Delay	icy			< 300 ms	< 300 ms		
epeatability				5%	5%		
hort Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)		
electric Protection				Against polarity reversal	Against polarity reversal		
				inductive loads	inductive loads		
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)		
Protection Degree				IP67	IP67		
Cable Length					2 m		
Cable Section					2 x 0,25 mm²		
(In the first of March 1991)				NO 1 1 1 1 1 1	NULL LA LA		

Nickel-plated brass

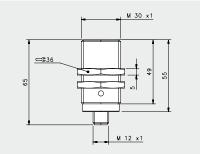
95g

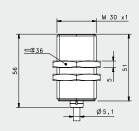
Nickel-plated brass

145g

INDUCTIVE AC M30







145g

and the				C740.0		
					ARD VAC	
				FLU	JSH	
				M12 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		10 mm	10 mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
0-30 Vdc	PNP NO	3 wires	order No.			
	PNP		order No.			
10-30 Vdc	NC	3 wires	order No.			
0-30 Vdc	NPN	3 wires				
0-30 Vac	NO	3 wires	order No.			
0-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	ic PNP NO-NC		audau Na			
NO-NC			order No.			
10-30 Vdc	NO-NC	C ^{4 wires}	order No.			
		0.NC 2.1	order rior			
10-30 Vdc	NO-NC	2 wires	order No.			
	NO	2 wires	2 wiroc			
0-250 Vac/Vdc	NO		order No.			
20-250 Vac/Vdc	NC	2 wires				
0 250 Vac, Vac	ive .	2 11105	order No.			
0-250 Vac	NO	2/3 wires		IS-30-A15-52	IS-30-A15-03	
			order No.	95B060820	95B060810	
0-30 Vdc	Analog 0-20 mA					
	0-20 MA		order No.			
VAMUR amplifier	NAMUR	2 wires	order No.			
			order No.			
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
lysteresis				< 10%	< 10%	
/ax. Output Currei	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A	
/ In. Output Curre				20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
/oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led				Yellow	Yellow	
witching Frequer	าดง			25 Hz	25 Hz	
itart Up Delay	- 1			< 300 ms	< 300 ms	
Repeatability				5%	5%	
hort Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
remperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Table Length					2 m	
Cable Section					2 x 0,25 mm ²	
Housing Material				Nickel-plated brass	Nickel-plated brass	
Woight - Cablo Out	put					

95g

Weight - Cable Output

Weight - Connector Output

NAMUR

Stainless Steel housing Short length Operating distance 0.8 ... 15 mm M12, M18 Cable, M8 or M12 connector 2 wires IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

"M12/18/30 models are Diversey and ECOLAB tested"

ECOLAB

M12/18/30 FLUSH models are ATEX certified I I 3G EX nA II T6 I I 3D EX tD A22 IP67 T85°C

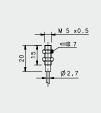


IIII KSRESKINGS 1557



NAMUR

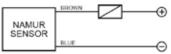




				NAMUR
				FLUSH
				cable
NOMINAL SWITCH	IING DISTAN	Œ		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires	order No.	
10-30 Vdc	PNP NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	
10-30 Vdc	NPN NC	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires	order No.	
20-250 Vac/Vdc	NO	2 wires		
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3 wires	order No.	
10-30 Vdc	Analog	3 wires	order No.	
NAMUR amplifier	0-20 mA	2 wires	order No.	 IS-05-A20-03
wawok ampimer	NAMUR	2 wiles	order No.	95B065410

Nominal Voltage	6+ 12 V DC	2 w
Residual Ripple		
Hysteresis	< 10%	
Max. Output Current	< 3 mA (metal absent)	_
Min. Output Current	< 1 mA (metal present)	
Residual Current		
Voltage Drop		`
Operation Led		
Switching Frequency	2000 Hz	
Start Up Delay	< 10 ms	
Repeatability		
Short Circuit Protection	Present (self-resetting)	M8
Electric Protection	Against polarity reversal inductive loads	
Temperature Limit	(-25 +70 °C)	
Protection Degree	IP67	
Cable Length	2 m (PVC)	
Cable Section	2x 0,15 mm²	1
Housing Material	Stainless-Steel	
Weight - Cable Output	25g	
Weight - Connector Output		

2 wires NAMUR

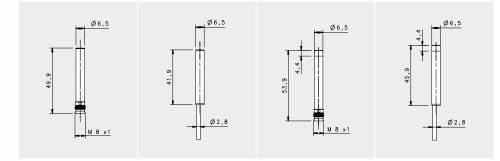


M8 2 wires NAMUR

C	2	co	nnec
CONT	ACTS CON	FIGURATI	- NR
		stacts numb	
CONT/ Available			

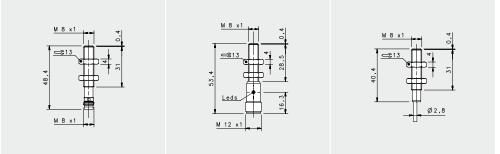
NAMUR M6,5



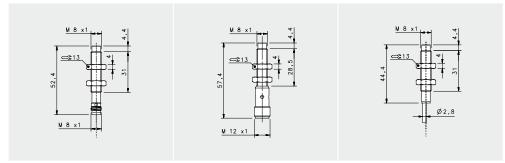


				NAMUR					
				FLU	JSH	NON F	LUSH		
				M8 conn	cable	M8 conn	cable		
NOMINAL SWITCH	ING DISTAN	CE		1 mm	1 mm	2 mm	2 mm		
10-30 Vdc	PNP/NPN	4 wires							
10 50 140	NO-NC	4 WIIC5	order No.						
10-30 Vdc	PNP NO	3 wires	andar Na						
	PNP		order No.						
10-30 Vdc	NC	3 wires	order No.						
40.2014-	NPN	2							
10-30 Vdc	NO	3 wires	order No.						
10-30 Vdc	NPN	3 wires							
10 50 140	NC	Swites	order No.						
10-30 Vdc	PNP NO-NC	4 wires	and an Na						
			order No.						
10-30 Vdc	NPN NO-NC	4 wires	order No.						
			order No.						
10-30 Vdc	NO-NC	2 wires	order No.						
20.250\/aa/\/da	NO	2 wires							
20-250 Vac/Vdc	NO	2 wires	order No.						
20-250 Vac/Vdc	NC	2 wires							
			order No.						
20-250 Vac	NO	2/3 wires	andan Na						
	Appleg		order No.						
10-30 Vdc	Analog 0-20 mA	3 wires	order No.						
				IS-65-A20-S1	IS-65-A20-03	IS-65-C20-S1	IS-65-C20-03		
NAMUR amplifier	NAMUR	2 wires	order No.	95B066310	95B066290	95B066320	95B066300		
Nominal Voltage				7,7 + 9 V DC					
Residual Ripple				< 10%	< 10%	< 10%	< 10%		
Hysteresis				< 10%	< 10%	< 10%	< 10%		
Max. Output Curre	nt			< 3 mA (metal absent)					
Min. Output Curre	nt			< 1 mA (metal present)					
Residual Current									
Voltage Drop									
Operation Led									
Switching Frequer	тсу			2000 Hz	2000 Hz	2000 Hz	2000 Hz		
Start Up Delay									
Repeatability				< 3%	< 3%	< 3%	< 3%		
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection	I			Against polarity reversal inductive loads					
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)		
Protection Degree				IP67	IP67	IP67	IP67		
Cable Length					2 m		2 m		
Cable Section					2x 0,25 mm²		2 x 0,25 mm²		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Weight - Cable Out	put				80 g		80 g		
Weight - Connecto	r Output			40 g		40 g			



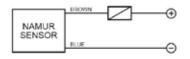


					NAMUR	
					FLUSH	
				NO serve		
				M8 conn	M12 conn	cable
OMINAL SWITCH		CE		1 mm	1 mm	1 mm
	PNP/NPN	4 wires				
	NO-NC		order No.			
0-30 Vdc	PNP NO	3 wires	audau Na			
			order No.			
0-30 Vdc	PNP NC	3 wires	order No.			
			order No.			
0-30 Vdc	NPN NO	3 wires	order No.			
	NPN		order No.			
0-30 Vdc	NC	3 wires	order No.			
	PNP		order No.			
0-30 Vdc	NO-NC	4 wires	order No.			
	NPN		order ritor			
0-30 Vdc	NO-NC	4 wires	order No.			
0-30 Vdc	NO-NC	2 wires	order No.			
0-250 Vac/Vdc	NO	2 wires	order No.			
0.050.1/ ////		2 wires				
0-250 Vac/Vdc	NC		order No.			
0.250.1/22	NO	2/3 wires				
0-250 Vac	NO		order No.			
0.001/4-	Analog	3 wires				
0-30 Vdc	0-20 mA		order No.			
AMUR amplifier	NAMUR	2 wires		IS-08-A20-S1	IS-08-A20-S2	S-08-A20-03
AMOR ampliner	NAMOR	2 WIIes	order No.	95B066760	95B066780	95B066740
lominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
esidual Ripple				< 10%	< 10%	< 10%
ysteresis				< 10%	< 10%	< 10%
1ax. Output Currer	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
lin. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
esidual Current						
oltage Drop						
peration Led						
witching Frequer	ісу			2000 Hz	2000 Hz	2000 Hz
tart Up Delay						
epeatability				< 3%	< 3%	< 3%
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
rotection Degree				IP67	IP67	IP67
able Length						2 m
able Section						2x 0,25 mm ²
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
leight - Cable Out	put				Filted biddb	80 g
Veight - Connector				35g	55g	



	NAMUR	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03
95B066790	95B066770	95B066750
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
2000 Hz	2000 Hz	2000 Hz
< 3%		
Present (self-resetting) Against polarity reversal	Present (self-resetting) Against polarity reversal	Present (self-resetting) Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67
		2 m
		2 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
		80 g
35g	55g	

2 wires NAMUR



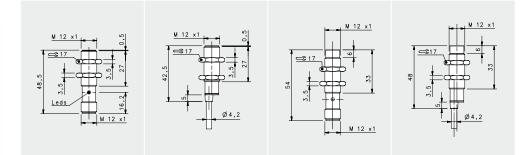
M8 2 wires NAMUR



M12 2 wires NAMUR





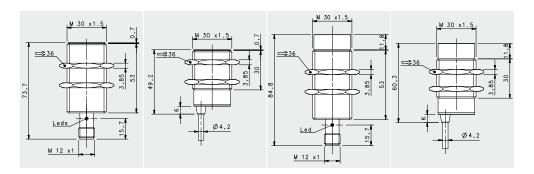


				NAMUR				
				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
OMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	4mm	4mm	
0-30 Vdc	PNP/NPN	4 wires						
0 50 140	NO-NC	4 WICS	order No.					
0-30 Vdc	PNP	3 wires						
	NO		order No.					
0-30 Vdc	PNP NC	3 wires	and an Ma					
			order No.					
0-30 Vdc	NPN NO	3 wires	order No.					
			order No.					
0-30 Vdc	NPN NC	3 wires	order No.					
	PNP		order No.					
0-30 Vdc	NO-NC	4 wires	order No.					
	NPN							
0-30 Vdc	NO-NC	4 wires	order No.					
0-30 Vdc	NO-NC	2 wires	order No.					
)-250 Vac/Vdc	NO	2 wires	order No.					
25014 014		2						
-250 Vac/Vdc	NC	2 wires	order No.					
250 //	NO	2/2						
)-250 Vac	NO	2/3 wires	order No.					
)-30 Vdc	Analog	3 wires						
-30 Vuc	0-20 mA	5 WIES	order No.					
AMUR amplifier	NAMUR	IAMUR 2 wires		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03	
		2 11105	order No.	95B064180	95B064160	95B064190	95B064170	
ominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
esidual Ripple				< 10%	< 10%	< 10%	< 10%	
/steresis				< 10%	< 10%	< 10%	< 10%	
ax. Output Currer				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
in. Output Curre esidual Current	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
oltage Drop								
peration Led								
witching Frequer	ICV.			2000 Hz	2000 Hz	2000 Hz	2000 Hz	
tart Up Delay	ic y							
epeatability				< 3%	< 3%	< 3%	< 3%	
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
rotection Degree				IP67	IP67	IP67	IP67	
able Length					2 m	IF 07	2 m	
able Section					2 x 0,25 mm^2		2 x 0,25 mm^2	
ousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
/eight - Cable Out	put				110 g		110 g	
leight - Connector				60 g		60 g		



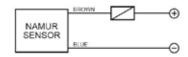
				NAMUR				
				FLU	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	IING DISTAN	Œ		5mm	5mm	8mm	8mm	
10-30 Vdc	PNP/NPN	4 wires						
10 50 140	NO-NC	· mics	order No.					
10-30 Vdc	PNP NO	3 wires	order No.					
	PNP		order No.					
10-30 Vdc	NC	3 wires	order No.					
	NPN							
10-30 Vdc	NO	3 wires	order No.					
10-30 Vdc	NPN	3 wires						
10-50 Vuc	NC	5 wires	order No.					
10-30 Vdc	PNP	4 wires						
	NO-NC	4 WIICS	order No.					
10-30 Vdc	NPN	4 wires						
	NO-NC		order No.					
10-30 Vdc	NO-NC	2 wires	and an Ma					
			order No.					
20-250 Vac/Vdc	NO	2 wires	order No.					
			UTUELINU.					
20-250 Vac/Vdc	NC	2 wires	order No.					
			oraci ivo.					
20-250 Vac	NO	2/3 wires	order No.					
	Analog	3 wires						
10-30 Vdc	0-20 mA		order No.					
		NAMUR 2 wires		IS-18-A20-S2	IS-18-A20-03	IS-18-C20-S2	IS-18-C20-03	
NAMUR amplifier	NAMUR		order No.	95B064380	95B064360	95B064390	95B064370	
Nominal Voltage				7,7 + 9 V DC				
Residual Ripple				< 10% < 10%	< 10% < 10%	< 10% < 10%	< 10% < 10%	
Hysteresis Max. Output Curre	nt			< 3 mA (metal absent)				
Ain. Output Curre				< 1 mA (metal absent)	< 1 mA (metal absent)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current	111				< T IIIA (Inetal present)	< T IIIA (Intetal present)	< TITA (metal present)	
/oltage Drop								
Operation Led								
Switching Frequer	าсง			1000 Hz	1000 Hz	1000 Hz	1000 Hz	
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
able Section					2 x 0,25 mm²		2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Weight - Cable Out					145g		145g	
Weight - Connecto	r Output			95g		95g		



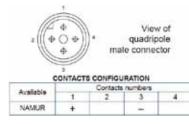


				NAMUR				
				FLU	ISH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCHING DISTANCE				10mm	10mm	15mm	15mm	
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC		order No.					
10-30 Vdc	PNP NO	3 wires	order No.					
	PNP		order No.					
10-30 Vdc	NC	3 wires	order No.					
	NPN							
10-30 Vdc	NO	3 wires	order No.					
40.201/4-	NPN	2						
10-30 Vdc	NC	3 wires	order No.					
10-30 Vdc	PNP	4 wires						
10-30 Vuc	NO-NC	4 WIIES	order No.					
10-30 Vdc	NPN	4 wires						
10 30 140	NO-NC	4 WIIC5	order No.					
10-30 Vdc	NO-NC	2 wires						
			order No.					
20-250 Vac/Vdc	NO	2 wires						
			order No.					
20-250 Vac/Vdc	NC	2 wires						
			order No.					
20-250 Vac	NO	2/3 wires	ordor No					
	0		order No.					
10-30 Vdc	Analog 0-20 mA	3 wires	order No.					
	0 20	0-20 MA	order No.	IS-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03	
NAMUR amplifier	NAMUR	2 wires	order No.	95B064630	95B064610	95B064640	95B064620	
Nominal Voltage				7,7 + 9 V DC				
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Curre	nt			< 3 mA (metal absent)				
Min. Output Curre	nt			< 1 mA (metal present)				
Residual Current								
Voltage Drop								
Operation Led								
Switching Freque	псу			500 Hz	500 Hz	500 Hz	500 Hz	
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads				
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
Cable Section					2 x 0,25 mm²		2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Weight - Cable Out					210 g		210 g	
Weight - Connecto	r Output			170 g		170 g		

2 wires NAMUR



M12 2 wires NAMUR



SQUARE

PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

 REDUCTION FACTOR

 ALUMINUM (25°C)
 STAINLESS STEEL AISI316L
 COPPER
 BRASS

 Average red. Fact.
 0,45
 0,85
 0,4
 0,5

I MARKED IN THE SOLUTION AND A STREET AND A STREET



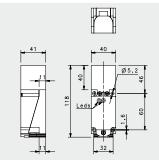


SQUARE

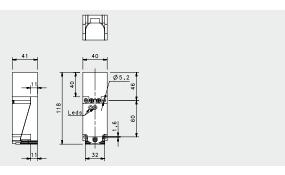
ODATALOGIC 71

SOUARE 40X40





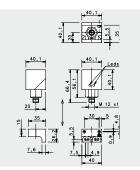
				40X40			
				FLUSH NON FLUSH			
				Terminal Block	Terminal Block		
NOMINAL SWITCHING DISTANCE				15 mm	30mm		
10 201/dz PNP/NPN /							
0-30 Vdc	NO-NC	4 wires	order No.				
	PNP						
0-30 Vdc	NO	3 wires	order No.				
0.001/1	PNP	- ·					
0-30 Vdc	NC	3 wires	order No.				
0.201/4-	NPN	- ·					
0-30 Vdc	NO	3 wires	order No.				
0.201/4-	NPN	2					
0-30 Vdc	NC	3 wires	order No.				
0-30 Vdc	PNP	1 wiros		IS-40-W5-S3	IS-40-Y5-S3		
0-50 Vuc	NO-NC	4 wires	order No.	95B065240	95B065280		
0-30 Vdc	NPN	1 wiros		IS-40-W6-S3	IS-40-Y6-S3		
0-50 Vuc	NO-NC	4 wires	order No.	95B065230	95B065270		
0-30 Vdc	NO-NC	2 wires					
J-30 Vuc	NO-NC	2 WIIES	order No.				
)-250 Vac/Vdc	NO	2 wires					
-250 Vac/ Vuc	NO	2 WIIES	order No.				
)-250 Vac/Vdc	NC	2 wires					
0-250 Vac7 Vuc	NC		order No.				
)-250 Vac	NO	2/3 wires					
J-250 Vac	NO	Z/ J WILES	order No.				
0-30 Vdc	Analog	3 wires					
J-30 Vuc	0-20 mA		order No.				
AMUR amplifier	NAMUR	2 wires					
Awork ampliner	NAMOR	2 WIES	order No.				
ominal Voltage				10-30 Vdc	10-30 Vdc		
esidual Ripple				< 10%	< 10%		
ysteresis				< 15% (Sr)	< 15% (Sr)		
ax. Output Curre	nt			200mA	200mA		
in. Output Curre							
esidual Current				< 0,01 mA	< 0,01 mA		
oltage Drop				< 1,5V	< 1,5V		
peration Led				YES	YES		
, witching Frequer	ncy			100 Hz	100 Hz		
tart Up Delay	1						
epeatability				< 1.0% (Sr)	< 1.0% (Sr)		
Short Circuit Protection				Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25+75C)	(-25 +75 °C)		
Protection Degree				IP67	IP67		
able Length							
able Section							
ousing Material				PBT (RESIN)	PBT (RESIN)		
Weight - Cable Output							
Veight - Connecto				262g	262g		

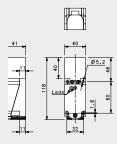


40X40 VAC/VDC						
FLUSH	NON FLUSH					
Terminal Block	Terminal Block					
15 mm	30mm					
S-40-W7-S3	IS-40-Y7-S3					
95B065250	95B065290					
IS-40-W8-S3	IS-40-Y8-S3					
95B065260	95B065300					
20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz					
< 10%	< 10%					
< 15% (Sr)	< 15% (Sr)					
200mA	200mA					
< 2,5mA	< 2,5mA					
< 10Vac ; < 8Vdc	< 10Vac ; < 8Vdc					
YES	YES					
25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC					
< 1.0% (Sr)	< 1.0% (Sr)					
Present (self-resetting)	Present (self-resetting)					
Against polarity reversal inductive loads	Against polarity reversal inductive loads					
(-25 +70 °C)	(-25 +70 °C)					
IP67	IP67					
PBT (RESIN)	PBT (RESIN)					
262g	262g					

SOUARE 40X40







	~			SHORT	ANALOG OUTPUT
				FLUSH	NON FLUSH
				M12 conn.	Terminal Block
NOMINAL SWITCH	ING DISTAN	Œ		15mm	7-20mm
	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires			
10 50 140	NO	5 WIICS	order No.		
10-30 Vdc	PNP	3 wires			
	NC		order No.		
10-30 Vdc	NPN NO	3 wires	ordor No		
	NPN		order No.		
10-30 Vdc	NC	3 wires	order No.		
	PNP		order No.	IS-40-X5-S2	
10-30 Vdc	NO-NC	4 wires	order No.	95B065320	
	NPN			IS-40-X6-S2	
10-30 Vdc	NO-NC	4 wires	order No.	95B065310	
10-30 Vdc	NO-NC	2 wires			
10-50 vuc	NU-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires			
20-250 Vac/ Vac	NO	2 WIES	order No.		
20-250 Vac/Vdc	NC	2 wires			
		2 111103	order No.		
20-250 Vac	NO	2/3 wires			
			order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	and an Ma		IS-40-C11-S3
	0-20 MA		order No.		95B065330
NAMUR amplifier	NAMUR	2 wires	order No.		
			order riter		
Nominal Voltage				10-30 Vdc	18-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15% (Sr)	< 10% (Sr)
Max. Output Currer	nt			200mA	0-20mA/200 Ω Max.
Vin. Output Curre	nt				
Residual Current				< 0,01mA	
/oltage Drop				< 1,5V	
Operation Led				YES	
Switching Frequer	ncy			100 Hz	100 Hz
Start Up Delay					
Repeatability				< 1.0% (Sr)	0,02 mm
Short Circuit Prote				Present (self-resetting) Against polarity reversal inductive loads	Present (self-resetting) Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				(-25+/0 C) IP67	(-25+70°C) IP67
Table Length					
Cable Section					
Housing Material				PBT (RESIN)	PBT (RESIN)
Weight - Cable Out	put				
Weight - Connector				170 g	242g

SOUARE 8X8



Switching Frequency

Short Circuit Protection

Electric Protection Temperature Limit

Protection Degree

Housing Material

Weight - Cable Output

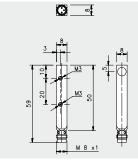
Weight - Connector Output

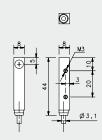
Cable Length

Cable Section

Start Up Delay

Repeatability





500 Hz

75 ms

< 3%

Present (self-resetting)

Against polarity reversal inductive loads

(-25 ... +70 °C)

IP67

2 m

3x0,14mm²

nickel-plated brass

80 g

					0 D T		
				SHORT FLUSH			
				M8 conn	cable		
NOMINAL SWITCH	ING DISTAN	CE		1,5mm	1,5mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
	PNP		order No.	 IS-88-Q1-S1	 IS-88-Q1-03		
10-30 Vdc	NO	3 wires	order No.	95B060840	95B060830		
10-30 Vdc	PNP NC	3 wires	order No.				
	NPN		order No.				
10-30 Vdc	NO	3 wires	order No.				
10-30 Vdc	NPN	3 wires					
	NC	5 101105	order No.				
10-30 Vdc	PNP NO-NC	4 wires	order No.				
			order No.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires					
10-30 Vuc	NO-NC	2 WITES	order No.				
20-250 Vac/Vdc	NO	2 wires					
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			order No.				
20-250 Vac	NO	2/3 wires	order No.				
	Analog						
10-30 Vdc	0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires					
	NAMOR	2 WIICS	order No.				
Nominal Voltago				10-30 Vdc	10-30 Vdc		
Nominal Voltage Residual Ripple				< 10%	< 10%		
			< 10% < 10% (Sr)	< 10% < 10% (Sr)			
Hysteresis Max. Output Current			200mA	< 10% (Sr) 200mA			
Min. Output Curre				20011A 	20011A 		
Residual Current	iit.						
				 < 1,2V	 < 1,2V		
Voltage Drop Operation Led				< 1,2V Yellow	< 1,2V Yellow		
operation Leo				renow	renow		

500 Hz

75 ms

< 3%

Present (self-resetting)

Against polarity reversal inductive loads

(-25 ... +70 °C)

IP67

nickel-plated brass

40 g

CAPACITIVE

Capacitive sensors are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

Nickel plated brass M18, M30 Basic series (NO-NC) Capacitive A.C. series (plastic housing) Multi-voltage series (SPDT relay) Operating distance: 5...25 mm Cable or M8 connector 2,4,6 wires PNP or NPN, N.O. and N.C. outputs, SPDT relay Delay ON or delay OFF model IP67 protection

MATERIALS	REDUCTION FACTOR
Metal (Fe37)	1xSn
Water	1xSn
P.V.C.	0.5xSn
Glass	0.5xSn
Wood	0.4xSn



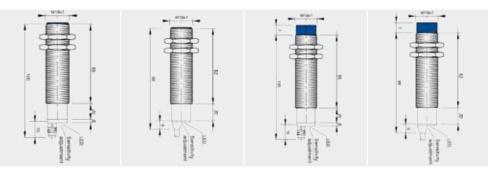
M18/30 FLUSH D.C. models are ATEX certified II 3G EX nA II T6 II 3D EX tD A22 IP67 T85°C



CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

CAPACITIVE BASIC M18



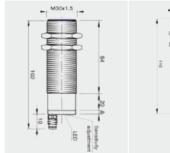


				STANDARD										
				FLU	ISH	NON	FLUSH							
				M8 conn	cable	M8 conn	cable							
NOMINAL SWITCH	ING DISTAN	Œ		15 mm	15 mm	110 mm	110 mm							
10-30 Vdc	PNP/NPN	4 wires												
10-30 Vuc	NO-NC	4 WIES	order No.											
10-30 Vdc	PNP	3 wires												
	NO	5 11105	order No.											
10-30 Vdc	PNP	3 wires												
	NC	5 11105	order No.											
10-30 Vdc	NPN	3 wires												
10 50 140	NO	JWIICS	order No.											
10-30 Vdc	NPN	3 wires	3 wires	3 wires	3 wires	3 wires	3 wires	3 wires	3 wires					
10 50 140	NC		order No.											
10-30 Vdc	PNP	4 wires	4 wires		C508K2	CS08	CS14K2	CS14						
	NO-NC				order No.	958901040	958901020	958901270	958901120					
10-30 Vdc	NPN	4 wires		IC 4 wires			CS07K2	CS07	CS13K2	CS13				
10-30 Vuc	NO-NC					order No.	958901000	958901160	958901250	958901100				
10-30 Vdc	NO-NC	2 wires												
10-30 Vuc	NO-NC	2 WIES	2 WIES	2 wiles	TWC Z WIFES	order No.								
20-250 Vac/Vdc	10	Juviroc												
20-250 Vac7 Vuc	NO	2 wires	2 wires	order No.										
20-250 Vac/Vdc	NC	2												
20-250 Vac7 Vuc	NC	NC	2 wires	2 wires	2 wires	2 wires	2 wires	C 2 wires	2 wires	order No.				
20-250 Vac	NO	2/2 uiros												
20-200 Vac	NU	2/3 wires	order No.											
10-30 Vdc	Analog	3 wires												
10-30 VUL	0-20 mA	5 wiles	order No.											
NAMUR amplifier	NAMUR	2 wires												
NAMOR amplifier	NAMUR	2 WIIES	order No.											

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (l=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		160 g		160 g
Weight - Connector Output	120 g		120 g	

CAPACITIVE BASIC M30









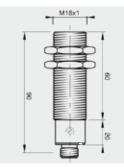


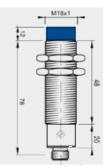
					STAN	DARD					
				FLU	SH	NON F	LUSH				
				M8 conn	cable	M8 conn	cable				
NOMINAL SWITCH	ING DISTAN	CE		115 mm	115 mm	125 mm	125 mm				
10-30 Vdc	PNP/NPN	4 wires									
	NO-NC		order No.								
10-30 Vdc	PNP NO	3 wires	order No.								
40.201/4-	PNP	2									
10-30 Vdc	NC	3 wires	order No.								
10-30 Vdc	NPN	3 wires									
10-30 vac	NO	JWIES	order No.								
10-30 Vdc	NPN	3 wires									
10-30 Vac	NC	JWIES	order No.								
10-30 Vdc	PNP	4 wires	4 wires		CS10K2	CS10	CS16K2	CS16			
10-30 Vuc	NO-NC			4 WIIES	4 WIIES	4 101165	4 WIIES	+ 101103	order No.	958901080	958901060
10-30 Vdc	NPN	4 wires		CS09K2	CS09	CS15K2	CS15				
10-30 Vuc	NO-NC	4 WIIES	order No.	958901230	958901180	958901300	958901200				
10-30 Vdc	NO-NC	2 wires									
10-30 Vuc	NU-NC	2 WIES	order No.								
20-250 Vac/Vdc	NO	2 wires									
20 200 Vac/ Vac	NO	2 00105	order No.								
20-250 Vac/Vdc	NC	2 wires									
20-230 Vac/ Vuc	NC	2 WIIES	order No.								
20-250 Vac	NO	2/3 wires									
			order No.								
10-30 Vdc	Analog 0-20 mA	3 wires	order No.								
NAMUR amplifier	NAMUR	2 wires	order No.								
Nominal Voltage				12-30\/dc(-15/10%)	12-30\/dc(-15/10%)	12-30\/dc(-15/10%)	12-30\/dc(-15/10%)				

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		250 g		250 g
Weight - Connector Output	210 g		210 g	

CAPACITIVE A.C. M18





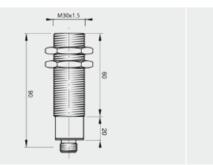


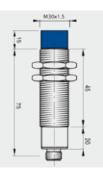
				STANDARD						
				FLUSH	NON FLUSH					
				M12 conn	M12 conn					
NOMINAL SWITCHING DISTANCE			28 mm	215 mm						
10-30 Vdc	PNP/NPN	4 wires								
	NO-NC		order No.							
10-30 Vdc	PNP NO	3 wires	order No.							
	PNP		order No.							
10-30 Vdc	NC	3 wires	order No.							
40.201/4-	NPN	2								
10-30 Vdc	NO	3 wires	order No.							
10-30 Vdc	NPN	3 wires	Zwiroc	Zwiroc	Zwiroc					
10-30 Vuc	NC		order No.							
10-30 Vdc	PNP	4 wires								
	NO-NC		order No.							
10-30 Vdc	NPN 4 wire		4 wires	4 wires	4 wires	4 wires	4 wires			
	NO-NC			order No.						
10-30 Vdc	NO-NC	2 wires								
			order No.							
20-250 Vac/Vdc	NO	2 wires		CSP40K4	CSP41K4					
			order No.	958901380	958901390					
20-250 Vac/Vdc	NC	2 wires								
			order No.							
20-250 Vac	NO	2/3 wires								
			order No.							
10-30 Vdc	Analog	3 wires								
	0-20 mA		order No.							
NAMUR amplifier	NAMUR	2 wires								
			order No.							

Nominal Voltage	20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
Residual Ripple	<10%	<10%
Hysteresis	< 15%	< 15%
Max. Output Current	300 mA	300 mA
Min. Output Current	2,5 mA	2,5 mA
Residual Current	< 2,5 mA	< 2,5 mA
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	80 g	80 g

CAPACITIVE A.C. M30







				STAND	ARD
				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITCH	ING DISTAN	CE		220 mm	230 mm
10-30 Vdc	PNP/NPN	4 wires			
10-50 Vuc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires			
55740	NO	5 11105	order No.		
0-30 Vdc	PNP	3 wires			
	NC		order No.		
0-30 Vdc	NPN NO	3 wires	order No.		
	NPN		order No.		
0-30 Vdc	NPN	3 wires	order No.		
	PNP		Sider NO.		
0-30 Vdc	NO-NC	4 wires	order No.		
	NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
0.001/4-		2			
0-30 Vdc	NO-NC	2 wires	order No.		
0-250 Vac/Vdc	NO	2 wires		CSP50K4	CSP51K4
0-250 Vac7 Vuc	NO	Z wires	order No.	958901400	958901410
0-250 Vac/Vdc	NC	2 wires			
0 250 Vac/ Vac	NC .	2 WIICS	order No.		
0-250 Vac	NO	2/3 wires			
			order No.		
0-30 Vdc	Analog	3 wires			
	0-20 mA		order No.		
IAMUR amplifier	NAMUR	2 wires	order No.		
			order No.		
ominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
esidual Ripple				<10%	<10%
ysteresis				< 15%	< 15%
ax. Output Curre	nt			300 mA	300 mA
lin. Output Curre	nt			2,5 mA	2,5 mA
esidual Current				< 2,5 mA	< 2,5 mA
etting				sensitivity adjustment trimmer	sensitivity adjustment trimmer
peration Led				Yellow	Yellow
witching Frequer	псу			25 Hz	25 Hz
tart Up Delay					
Repeatability				< 5%	< 5%
hort Circuit Prote	ection			Present(self-resetting)	Present(self-resetting)
ectric Protectior	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				- 25 +70 C	- 25 +70 C
rotection Degree				IP67	IP67
able Length					
able Section					
lousing Material				Plastic (PBT)	Plastic (PBT)
Veight - Cable Out					
Veight - Connecto	r Output			200 g	200 g

CAPACITIVE MULTIVOLTAGE M30







- 25 +70 C

IP65

2 m 6x0,30 mm²

Nickel-plated brass

250 g

				STANDARD (TI	MER TRIMMER)	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		20 mm	30 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
18230 VAC/DC	relay SPDT	6 wires	order No.	C531 958901150	CS32 958901220	
18230 Vac/dc	relay SPDT (delay ON)	6 wires	order No.	CS31TD5 958901350	CS32TD5 958901360	
18230 VAC/DC	relay SPDT (delay OFF)	6 wires	order No.	CS31TE5 958901210	CS32TE5 958901370	
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)	
Residual Ripple				<10%	<10%	
Hysteresis	-4			<10%		
Max. Output Curre	nt			3A 30 Vac- 1A 220 Vac (90 W, 360 VA) 2.5 VA	3A 30 Vac- 1A 220 Vac (90 W, 360 VA) 2.5 VA	
Absorption				2,5 VA	2,5 VA	
Residual Current				sensitivity and time adj. trimmer	sensitivity and time adj. trimmer	
Setting Operation Led				Yellow	Yellow	
Switching Frequency				10 Hz	10 Hz	
Start Up Delay	icy			<300 ms	<300 ms	
Repeatability				<5%	<5%	
Repeatability Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	
Electric Protectior				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
				inductive lodas	inductive rodus	

- 25 +70 C

IP65

2 m

6x0,30 mm²

Nickel-plated brass

250 g

Temperature Limit Protection Degree

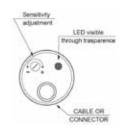
Weight - Cable Output

Weight - Connector Output

Cable Length

Cable Section Housing Material

CAPACITIVE SETTINGS & CONNECTIONS



TRAE ADJUST

S.

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Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature variations.



The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

M84-pole NO-NC models

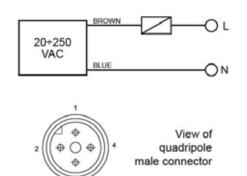


SENSITIVITY ADJUS

CONTACTS	CONFIGURATION	
CONTRACTO	contribution	

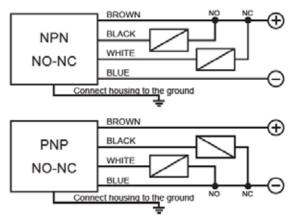
Output	Contacts numbers				
Output	1	2	3	4	
NPN/PNP NO+NC	+	NC	-	NO	

2 wires Vac models

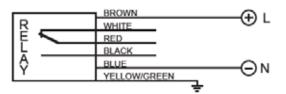


с	ONTACTS	CONFIGU	RATION	
Available	Contacts numbers			
Available	1	2	3	4
NO	L		N	

4 wires NO-NC Vdc model



6 wires Mulivoltage models



CABLES, CONNECTORS & ACCESSORIES

HILLING STRUCTURE CONTROL

2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable



(Ex)

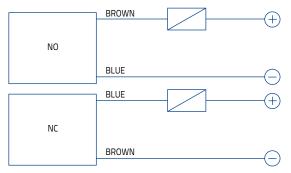
CS-xx, CV-xx, CABLES are ATEX certified I I 3G EX nA II T6 I I 3D EX tD A22 IP67 T85°C

CABLES, CONNECTORS & ACCESSORIES

CABLES, CONNECTORS & ACCESSORIES

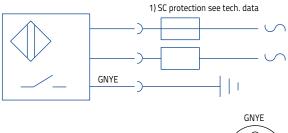
2 WIRES SENSORS

2 WIRES NO-NC



WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.

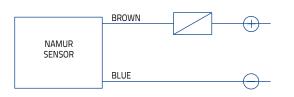
INDUCTIVE AC



Double key connector for inductive AC sensors



NAMUR

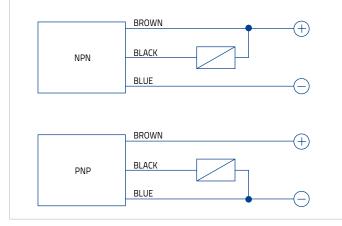


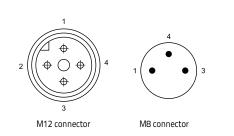
CONTACTS CONFIGURATION					
Available	Contacts numbers				
Available	1	2	3	4	
NAMUR	+		-		

CONTACTS CONFIGURATION						
Available	Contacts	Contacts numbers				
	1	2	3	4		
NO	+		-			
NC	-		+			

3 WIRES SENSORS

3 WIRES PNP or NPN, NO or NC

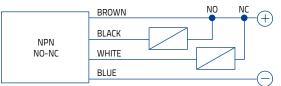


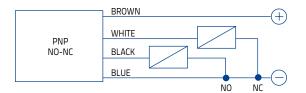


CONTACTS CONFIGURATION					
Available	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		-	NO/NC	

4 WIRES SENSORS

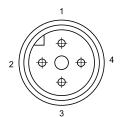
4 wires (NO+NC)





4 wires (PNP/NPN, NO/NC)

	BROWN	(+)
NPN	WHITE	U
NO	BLACK	
	BLUE	\bigcirc
	BLUE	A
NPN	WHITE	U
NC	BLACK	
	BROWN	\square
	BROWN	\oplus
PNP	WHITE	U
NO	BLACK	
	BLUE	\bigcirc
	BLUE	\oplus
PNP	WHITE	Ð
NC	BLACK	
	BROWN	\cap



CONTACTS CONFIGURATION					
Outrast	Contacts numbers				
Output	1	2	3	4	
NO + NC	+	NC	-	NO	

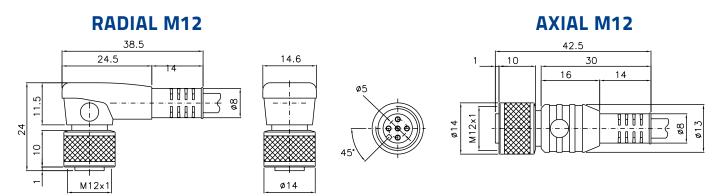
CONTACTS CONFIGURATION						
Output	Contacts numbers					
Ουτρατ	1	2	3	4		
NPN NO	+	NO	-	-		
NPN NC	-	NC	+	-		
PNP NO	+	+	-	NO		
PNP NC	-	+	+	NC		

CABLES, CONNECTORS & ACCESSORIES

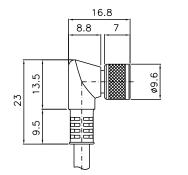
CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.	
		M	/18			
		Grey, P.V.C.	3 m	CS-B1-01-G-03	95A251490	
M8 Connector	3	urey, r.v.c.	5 m	CS-B1-01-G-05	95A251510	
(Axial)	ر	P.U.R.	2 m	CS-B1-01-R-02	95A251580	
		P.U.R.	5 m	CS-B1-01-R-05	95A251600	
		Grey, P.V.C.	3 m	CS-B2-01-G-03	95A251500	
M8 Connector	3	GIEY, P.V.C.	5 m	CS-B2-01-G-05	95A251520	
(Radial 90°)		P.U.R.	2 m	CS-B2-01-R-02	95A251590	
		P.U.R.	5 m	CS-B2-01-R-05	95A251610	
			3 m	CS-B1-02-G-03	95A251420	
		Creve D.V.C	5 m	CS-B1-02-G-05	95A251430	
M8 Connector (Axial)		Grey, P.V.C.	7 m	CS-B1-02-G-07	95A251440	
	,		10 m	CS-B1-02-G-10	95A251480	
	4	2112	2 m	CS-B1-02-R-02	95A251620	
		P.U.R.	5 m	CS-B1-02-R-05	95A251640	
		OIL resistant	5 m	CS-B1-02-0-05	95A251730	
		(CEI 2034-01)	10 m	CS-B1-02-0-10	95A251100	
			3 m	CS-B2-02-G-03	95A251450	
			5 m	CS-B2-02-G-05	95A251460	
M8 Connector		Grey, PVC	7 m	CS-B2-02-G-07	95A251470	
			10 m	CS-B2-02-G-10	95A251530	
(Radial 90°)	4		2 m	CS-B2-02-R-02	95A251630	
		P.U.R.	5 m	CS-B2-02-R-05	95A251650	
		OIL resistant	5 m	CS-B2-02-0-05	95A251720	
		(CEI 2034-01)	10 m	CS-B2-02-0-10	95A251110	
		N	112			
			3 m	CS-A1-01-G-03	95A251290	
M12 Connector	3	Grey, P.V.C.	5 m	CS-A1-01-G-05	95A251300	
(Axial)			7 m	CS-A1-01-G-07	95A251320	
			10 m	CS-A1-01-G-10	95A251340	
			3 m	CS-A2-01-G-03	95A251200	
		Grey, P.V.C.	5 m	CS-A2-01-G-05	95A251210	
			7 m	CS-A2-01-G-07	95A251220	
M12 Connector	3		10 m	CS-A2-01-G-10	95A251230	
(Radial 90°)			3 m	CS-A2-01-0-03	95A251660	
		OIL resistant	5 m	CS-A2-01-0-05	95A251670	
		(CEI 2034-01)	10 m	CS-A2-01-0-10	95A251680	
M12 Connector with LED			5 m	CS-A2-11-G-05	95A251310	
(for PNP N.O. sensors)	3	Grey, P.V.C.				
(Radial 90°)			10 m	CS-A2-11-G-10	95A251330	
Shielded M12 Connector (Axial)	3	Grey, P.V.C.	10 m	CV-A1-21-G-10	95ACC2060	
			3 m	CS-A1-02-G-03	95A251380	
		Con DVC	5 m	CS-A1-02-G-05	95A251270	
M12 Connector		Grey, P.V.C.	7 m	CS-A1-02-G-07	95A251280	
(Axial)	4		10 m	CS-A1-02-G-10	95A251390	
		DUD	2 m	CS-A1-02-R-02	95A251540	
		P.U.R.	5 m	CS-A1-02-R-05	95A251560	
			3 m	CS-A2-02-G-03	95A251360	
			5 m	CS-A2-02-G-05	95A251240	
		Grey, P.V.C.	7 m	CS-A2-02-G-07	95A251245	
M12 Connector			10 m	CS-A2-02-G-10	95A251260	
IVITZ CONTICULUI	4		2 m	CS-A2-02-R-02	95A251550	
(Radial 90°)	4	(Radial 90°)				
(Radial 90°)		P.U.R.	5 m	CS-A2-02-R-05	95A251570	
(Radial 90°)		OIL resistant	5 m 5 m	CS-A2-02-R-05 CS-A2-02-0-05	95A251570 95A251690	

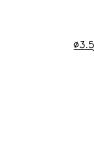
M12 Connector with LED			3 m	CS-A2-12-G-03	95A251400
(for PNP N.O. sensors)	4	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350
(Radial 90°)			10 m	CS-A2-12-G-10	95A251370
			3 m	CV-A1-22-B-03	95ACC1480
			5 m	CV-A1-22-B-05	95ACC1490
Shielded M12 Connector (Axial)	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
			15 m	CV-A1-22-B-15	95ACC2070
			25 m	CV-A1-22-B-25	95ACC2090
	4	Black, P.V.C.	3 m	CV-A2-22-B-03	95ACC1540
Shielded M12 Connector (Radial 90°)			5 m	CV-A2-22-B-05	95ACC1550
			10 m	CV-A2-22-B-10	95ACC1560
		U.L., Black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120
			5 m	CS-A1-02-U-05	95ASE1130
M12 Connector (Axial)	4		10 m	CS-A1-02-U-10	95ASE1140
(/ 1/141)			15 m	CS-A1-02-U-15	95ASE1150
			25 m	CS-A1-02-U-25	95ASE1160
		CONNECTO	R (not cabled)		
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003

CONNECTOR



RADIAL M8





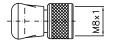
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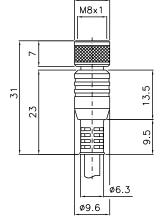
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3 POLES



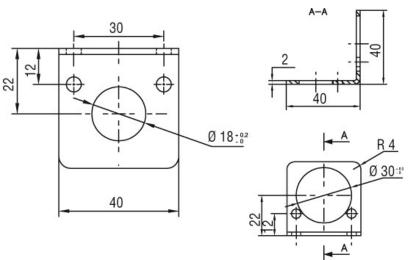




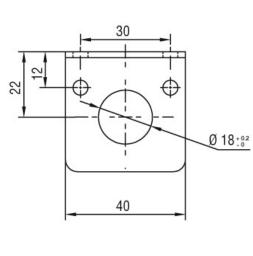
CABLES. CONNECTORS & ACCESSORIES

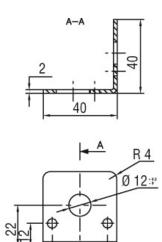
ACCESSORIES SELECTION AND ORDER INFORMATION

CONNECTOR	ТҮРЕ	MATERIAL	CODING	ORDER No.
M12	fixing bracket	Stainless Steel	ST1218	95ACC3340
M18	fixing bracket	Stainless Steel	ST1218	95ACC3340
M30	fixing bracket	Stainless Steel	ST1830	95ACC3350



ST1830





ST1218



INDEX

INDUCTIVE

	M4, M	5, M6,5	
SENSOR	Order No.	Category	Pag.
IS-04-A1-03	95B061011	STAINLESS STEEL	34
IS-04-A3-03	95B061001	STAINLESS STEEL	34
IS-05-A1-03	95B061041	BASIC	35
IS-05-A1-S1	95B061051	BASIC	35
IS-05-A20-03	95B065410	NAMUR	62
IS-05-A3-03	95B061021	BASIC	35
IS-05-A3-S1	95B061031	BASIC	35
IS-05-A4-03	95B065420	BASIC	35
IS-05-E3-03	95B065400	BASIC	35
IS-65-A1-03	95B064730	BASIC	10
IS-65-A1-S1	95B066050	BASIC	10
IS-65-A20-03	95B066290	NAMUR	63
IS-65-A20-S1	95B066310	NAMUR	63
IS-65-A2-03	95B064770	BASIC	10
IS-65-A2-S1	95B066090	BASIC	10
IS-65-A3-03	95B064650	BASIC	10
IS-65-A3-S1	95B064970	BASIC	10
IS-65-A4-03	95B064690	BASIC	10
IS-65-A4-S1	95B066010	BASIC	10
IS-65-B1-03	95B064750	BASIC	11
IS-65-B1-S1	95B066070	BASIC	11
IS-65-B2-03	95B064790	BASIC	11
IS-65-B2-S1	95B066110	BASIC	11
IS-65-B3-03	95B064670	BASIC	11
IS-65-B3-S1	95B064990	BASIC	11
IS-65-B4-03	95B064710	BASIC	11
IS-65-B4-S1	95B066030	BASIC	11
IS-65-C1-03	95B064890	BASIC	10
IS-65-C1-S1	95B066210	BASIC	10
IS-65-C20-03	95B066300	NAMUR	63
IS-65-C20-S1	95B066320	NAMUR	63
IS-65-C2-03	95B064930	BASIC	10
IS-65-C2-S1	95B066250	BASIC	10
IS-65-C3-03	95B064810	BASIC	10
IS-65-C3-S1	95B066130	BASIC	10
IS-65-C4-03	95B064850	BASIC	10
IS-65-C4-S1	95B066170	BASIC	10
IS-65-D1-03	95B064910	BASIC	11
IS-65-D1-S1	95B066230	BASIC	11
IS-65-D2-03	95B064950	BASIC	11
IS-65-D2-S1	95B066270	BASIC	11
IS-65-D3-03	95B064830	BASIC	11
IS-65-D3-S1	95B066150	BASIC	11
IS-65-D4-03	95B064870	BASIC	11
IS-65-D4-S1	95B066190	BASIC	11
IS-65-G1-03	95B064740	BASIC	12
IS-65-G1-S1	95B066060	BASIC	12
IS-65-G2-03	95B064780	BASIC	12
IS-65-G2-S1	95B066100	BASIC	12
IS-65-G3-03	95B064660	BASIC	12
IS-65-G3-S1	95B064980	BASIC	12
IS-65-G4-03	95B064700	BASIC	12
IS-65-G4-S1	95B066020	BASIC	12
IS-65-H1-03	95B064900	BASIC	13
IS-65-H1-S1	95B066220	BASIC	13
IS-65-H2-03	95B064940	BASIC	13
IS-65-H2-S1	95B066260	BASIC	13
IS-65-H3-03	95B064820	BASIC	13
IS-65-H3-S1	95B066140	BASIC	13
IS-65-H4-03	95B064860	BASIC	13
IS-65-H4-S1	95B066180	BASIC	13
IS-65-M1-03	95B064760	STAINLESS STEEL	36
IS-65-M1-S1	95B066080	STAINLESS STEEL	36
IS-65-M2-03	95B064800	STAINLESS STEEL	36
			20

-			
IS-65-M2-S1	95B066120	STAINLESS STEEL	36
IS-65-M3-03	95B064680	STAINLESS STEEL	36
	95B066000	STAINLESS STEEL	36
IS-65-M3-S1			
IS-65-M4-03	95B064720	STAINLESS STEEL	36
IS-65-M4-S1	95B066040	STAINLESS STEEL	36
IS-65-N1-03	95B064920	STAINLESS STEEL	37
IS-65-N1-S1			
	95B066240	STAINLESS STEEL	37
IS-65-N2-03	95B064960	STAINLESS STEEL	37
IS-65-N2-S1	95B066280	STAINLESS STEEL	37
IS-65-N3-03	95B064840	STAINLESS STEEL	37
	95B066160		
IS-65-N3-S1		STAINLESS STEEL	37
IS-65-N4-03	95B064880	STAINLESS STEEL	37
IS-65-N4-S1	95B066200	STAINLESS STEEL	37
		M8	
SENSOR	Order No.	Category	Pag.
IS-08-A1-03	95B061121	BASIC	14
IS-08-A1-S1	95B061141	BASIC	14
IS-08-A1-S2	95B061131	BASIC	14
IS-08-A20-03	95B066740	NAMUR	64
IS-08-A20-03	95B066760	NAMUR	64
IS-08-A20-S1	95B066780	NAMUR	64
	95B0601151		
IS-08-A2-03		BASIC	14
IS-08-A2-S1	95B061171	BASIC	14
IS-08-A2-S2	95B061161	BASIC	14
IS-08-A3-03	95B061061	BASIC	14
IS-08-A3-S1	95B061081	BASIC	14
IS-08-A3-S2	95B061071	BASIC	14
IS-08-A4-03	95B061091	BASIC	14
IS-08-A4-S1	95B061111	BASIC	14
IS-08-A4-S2	95B061101	BASIC	14
IS-08-B1-03	95B061921	BASIC	16
IS-08-B1-S1	95B066860	BASIC	16
IS-08-B1-S2		BASIC	16
	95B066590		
IS-08-B2-03	95B061951	BASIC	16
IS-08-B2-S1	95B066890	BASIC	16
IS-08-B2-S2	95B066620	BASIC	16
IS-08-B3-03	95B061861	BASIC	16
IS-08-B3-S1	95B066810	BASIC	16
IS-08-B3-S2	95B066530	BASIC	16
IS-08-B4-03	95B061891	BASIC	16
IS-08-B4-S1	95B066830	BASIC	16
IS-08-B4-S2	95B066560	BASIC	16
IS-08-C1-03	95B061521	BASIC	15
IS-08-C1-S1	95B061541	BASIC	15
IS-08-C1-S2			
	95B061531	BASIC	15
IS-08-C20-03	95B066750	NAMUR	65
IS-08-C20-S1	95B066790	NAMUR	65
IS-08-C20-S2	95B066770	NAMUR	65
IS-08-C2-03	95B061551	BASIC	15
IS-08-C2-S1	95B061571	BASIC	15
IS-08-C2-S2	95B061561	BASIC	15
IS-08-C3-03	95B066410	BASIC	15
IS-08-C3-S1	95B061481	BASIC	15
IS-08-C3-S2	95B061471	BASIC	15
IS-08-C4-03	95B066450	BASIC	15
IS-08-C4-S1	95B061511	BASIC	15
IS-08-C4-S2	95B061501	BASIC	15
IS-08-D1-03	95B062321	BASIC	17
IS-08-D1-S1	95B066970	BASIC	17
IS-08-D1-S2	95B066700	BASIC	17
IS-08-D2-03	95B062351	BASIC	17
IS-08-D2-S1	95B067000	BASIC	17
IS-08-D2-S2	95B066720	BASIC	17
IS-08-D3-03	95B066430	BASIC	17
IS-08-D3-S1	95B066920	BASIC	17

IS-08-D3-S2	95B066650	BASIC	17	IS-12-A4-S2	95B061221
IS-08-D4-03	95B062291	BASIC	17	IS-12-A9-03	95B064100
IS-08-D4-S1	95B066940	BASIC	17	IS-12-A9-S2	95B063931
IS-08-D4-S2	95B066670	BASIC	17	IS-12-B1-03	95B062041
IS-08-G1-03	95B066370	BASIC	18	IS-12-B1-S2	95B062051
IS-08-G1-S1	95B066850	BASIC	18	IS-12-B2-03	95B062071
IS-08-G1-S2	95B066580	BASIC	18	IS-12-B2-S2	95B062081
IS-08-G2-03	95B066390	BASIC	18	IS-12-B3-03	95B061981
IS-08-G2-S1	95B066880	BASIC	18	IS-12-B3-S2	95B061991
IS-08-G2-S2	95B066610	BASIC	18	IS-12-B4-03	95B062011
IS-08-G3-03	95B066330	BASIC	18	IS-12-B4-S2	95B062021
IS-08-G3-S1	95B066800	BASIC	18	IS-12-C0-03	95B064040
IS-08-G3-S2	95B066520	BASIC	18	IS-12-C0-S2	95B064080
IS-08-G4-03	95B066350	BASIC	18	IS-12-C1-03	95B061641
IS-08-G4-S1	95B063131	BASIC	18	IS-12-C1-S2	95B061651
IS-08-G4-S2	95B066550	BASIC	18	IS-12-C20-03	95B064170
IS-08-H1-03	95B066480	BASIC	19	IS-12-C20-S2	95B064190
IS-08-H1-S1	95B066960	BASIC	19	IS-12-C2-03	95B061671
IS-08-H1-S2	95B066690	BASIC	19	IS-12-C2-S2	95B061681
IS-08-H2-03	95B066500	BASIC	19	IS-12-C3-03	95B061581
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IS-08-H2-S2	95B063301	BASIC	19	IS-12-C4-03	95B061611
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IS-08-H3-S2	95B066640	BASIC	19	IS-12-C9-S2	95B064140
IS-08-H4-03	95B066460	BASIC	19	IS-12-D1-03	95B062441
IS-08-H4-S1	95B063251	BASIC	19	IS-12-D1-S2	95B062451
IS-08-H4-S2	95B063241	BASIC	19	IS-12-D2-03	95B062471
IS-08-M1-03	95B066380	STAINLESS STEEL	38	IS-12-D2-S2	95B062481
IS-08-M1-S1	95B066870	STAINLESS STEEL	38	IS-12-D3-03	95B062381
IS-08-M1-S2	95B066600	STAINLESS STEEL	38	IS-12-D3-S2	95B062391
IS-08-M2-03	95B066400	STAINLESS STEEL	38	IS-12-D4-03	95B062411
IS-08-M2-S1	95B066900	STAINLESS STEEL	38	IS-12-D4-S2	95B062421
IS-08-M2-S2	95B066630	STAINLESS STEEL	38	IS-12-E0-03	95B067190
IS-08-M3-03	95B066340	STAINLESS STEEL	38	IS-12-E0-S2	95B067230
IS-08-M3-S1	95B066820	STAINLESS STEEL	38	IS-12-E1-S2	95B067030
IS-08-M3-S2	95B066540	STAINLESS STEEL	38	IS-12-E9-03	95B067200
IS-08-M4-03	95B066360	STAINLESS STEEL	38	IS-12-E9-S2	95B067240
IS-08-M4-S1	95B066840	STAINLESS STEEL	38	IS-12-F1-S2	95B067020
IS-08-M4-S2	95B066570	STAINLESS STEEL	38	IS-12-F0-03	95B067210
IS-08-N1-03	95B066490	STAINLESS STEEL	39	IS-12-F0-S2	95B067250
IS-08-N1-S1	95B066980	STAINLESS STEEL	39	IS-12-F9-03	95B067220
IS-08-N1-S2	95B066710	STAINLESS STEEL	39	IS-12-F9-S2	95B067260
IS-08-N2-03	95B066510	STAINLESS STEEL	39	IS-12-G1-03	95B063361
IS-08-N2-S1	95B067010	STAINLESS STEEL	39	IS-12-G1-S2	95B063371
IS-08-N2-S2	95B06730	STAINLESS STEEL	39	IS-12-G2-03	95B063381
IS-08-N3-03	95B066440	STAINLESS STEEL	39	IS-12-G2-S2	95B063391
IS-08-N3-S1	95B066930	STAINLESS STEEL	39	IS-12-G2-S2	95B063321
IS-08-N3-S2	95B066660	STAINLESS STEEL	39	IS-12-G3-S2	95B063331
IS-08-N4-03	95B066470	STAINLESS STEEL	39	IS-12-G3-52	95B063341
IS-08-N4-S1	95B066950	STAINLESS STEEL	39	IS-12-G4-S2	95B063351
IS-08-N4-S1		STAINLESS STEEL	39	IS-12-G4-S2 IS-12-G5-03	95B063351 95B062681
J-00-194-32	95B066680	JIAINLESS SIEEL	52	IS-12-G5-O3	
					95B062691
	-0.6	10		IS-12-G6-03	95B062661
CENCOR	1	12		IS-12-G6-S2	95B062671
SENSOR	Order No.	Category	Pag.	IS-12-H1-03	95B063441
IS-12-A0-03	95B064030	BASIC	20	IS-12-H1-S2	95B063451
IS-12-A0-S2	95B064060	BASIC	20	IS-12-H2-03	95B063461
IS-12-A1-03	95B061241	BASIC	20	IS-12-H2-S2	95B063471
IS-12-A1-S2	95B061251	BASIC	20	IS-12-H3-03	95B063401

INDUCTIVE AC

INDUCTIVE AC

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IS-12-A15-03

IS-12-A20-03

IS-12-A2-03

IS-12-A3-03

IS-12-A4-03

IS-12-A15-S2

IS-12-A20-S2

IS-12-A2-S2

IS-12-A3-S2

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95B061281

95B061181

95B061191

95B061211

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IS-12-A4-S2	95B061221	BASIC	20
IS-12-A9-03	95B064100	BASIC	20
IS-12-A9-S2	95B063931	BASIC	20
IS-12-B1-03	95B062041	BASIC	21
IS-12-B1-S2	95B062051	BASIC	21
	95B062071		
IS-12-B2-03		BASIC	21
IS-12-B2-S2	95B062081	BASIC	21
IS-12-B3-03	95B061981	BASIC	21
IS-12-B3-S2	95B061991	BASIC	21
IS-12-B4-03	95B062011	BASIC	21
IS-12-B4-S2	95B062021	BASIC	21
IS-12-C0-03	95B064040	BASIC	20
IS-12-C0-S2	95B064080	BASIC	20
IS-12-C1-03	95B061641	BASIC	20
IS-12-C1-S2	95B061651	BASIC	20
IS-12-C20-03	95B064170	NAMUR	66
IS-12-C20-S2	95B064190	NAMUR	66
IS-12-C2-03	95B061671	BASIC	20
IS-12-C2-S2	95B061681	BASIC	20
IS-12-C3-03	95B061581	BASIC	20
IS-12-C3-S2	95B061591	BASIC	20
IS-12-C4-03	95B061611	BASIC	20
IS-12-C4-S2	95B061621	BASIC	20
IS-12-C9-03	95B064110	BASIC	20
IS-12-C9-S2	95B064140	BASIC	20
IS-12-D1-03	95B062441	BASIC	21
IS-12-D1-S2	95B062451	BASIC	21
IS-12-D2-03	95B062471	BASIC	21
IS-12-D2-S2	95B062481	BASIC	21
IS-12-D3-03	95B062381	BASIC	21
IS-12-D3-S2	95B062391	BASIC	21
IS-12-D4-03	95B062411	BASIC	21
IS-12-D4-S2	95B062421	BASIC	21
IS-12-E0-03	95B067190	BASIC	
			22
IS-12-E0-S2	95B067230	BASIC	22
IS-12-E1-S2	95B067030	BASIC	22
IS-12-E9-03	95B067200	BASIC	22
IS-12-E9-S2	95B067240	BASIC	22
IS-12-F1-S2	95B067020	BASIC	22
IS-12-F0-03	95B067210	BASIC	22
IS-12-F0-S2	95B067250	BASIC	22
IS-12-F9-03	95B067220	BASIC	22
IS-12-F9-S2	95B067260	BASIC	22
IS-12-G1-03	95B063361	BASIC	23
IS-12-G1-S2	95B063371	BASIC	23
IS-12-G2-03	95B063381	BASIC	23
IS-12-G2-S2	95B063391	BASIC	23
IS-12-G3-03	95B063321		23
		BASIC	
IS-12-G3-S2	95B063331	BASIC	23
IS-12-G4-03	95B063341	BASIC	23
IS-12-G4-S2	95B063351	BASIC	23
IS-12-G5-03	95B062681	BASIC	23
IS-12-G5-S2	95B062691	BASIC	23
IS-12-G6-03	95B062661	BASIC	23
IS-12-G6-S2	95B062671	BASIC	23
IS-12-H1-03	95B063441	BASIC	23
IS-12-H1-S2	95B063451		
		BASIC	23
IS-12-H2-03	95B063461	BASIC	23
IS-12-H2-S2	95B063471	BASIC	23
IS-12-H3-03	95B063401	BASIC	23
IS-12-H3-S2	95B063411	BASIC	23
IS-12-H4-03	95B063421	BASIC	23
IS-12-H4-S2	95B063431	BASIC	23
IS-12-H5-03	95B062761	BASIC	23
IS-12-H5-S2	95B062771	BASIC	23
IS-12-H6-03	95B062741	BASIC	23
IS-12-H6-S2	95B062751	BASIC	23
IS-12-I1-S2	95B065340	METAL FACE	48
IS-12-L1-S2	95B063871	METAL FACE	48

INDEX

IS-12-M1-S2	95B060240	STAINLESS STEEL	40
IS-12-M2-S2	95B060250	STAINLESS STEEL	40
IS-12-M3-S2	95B060260	STAINLESS STEEL	40
IS-12-M4-S2	95B060270	STAINLESS STEEL	40
IS-12-N1-S2	95B060280	STAINLESS STEEL	40
IS-12-N2-S2	95B060290	STAINLESS STEEL	40
IS-12-N3-S2	95B060300	STAINLESS STEEL	40
IS-12-N4-S2	95B060310	STAINLESS STEEL	40
IS-12-01-52	95B060000	STAINLESS STEEL	41
IS-12-02-52	95B060010	STAINLESS STEEL	41
IS-12-03-52	95B060020	STAINLESS STEEL	41
IS-12-04-52	95B060030	STAINLESS STEEL	41
IS-12-P1-S2	95B060040	STAINLESS STEEL	41
IS-12-P2-S2	95B060050	STAINLESS STEEL	41
IS-12-P3-S2	95B060060	STAINLESS STEEL	41
IS-12-P4-S2	95B060070	STAINLESS STEEL	41
IS-12-P4-S2	95B060070	STAINLESS STEEL	41
IS-F12-S1-S2	95B065360	WELD FIELD IMMUNE	52
IS-F12-T1-S2	95B065370	WELD FIELD IMMUNE	52

	M1	8	
SENSOR	Order No.	Category	Pag.
IS-18-A0-03	95B064230	BASIC	24
IS-18-A0-52	95B064260	BASIC	24
IS-18-A1-03	95B061341	BASIC	24
IS-18-A1-52	95B061351	BASIC	24
IS-18-A15-03	95B060770	INDUCTIVE AC	57
IS-18-A15-S2	95B060780	INDUCTIVE AC	57
IS-18-A20-03	95B064360	NAMUR	67
IS-18-A20-S2	95B064380	NAMUR	67
IS-18-A2-03	95B061361	BASIC	24
IS-18-A2-52	95B061371	BASIC	24
IS-18-A3-03	95B061301	BASIC	24
IS-18-A3-S2	95B061311	BASIC	24
IS-18-A4-03	95B061321	BASIC	24
IS-18-A4-S2	95B061331	BASIC	24
IS-18-A9-03	95B064300	BASIC	24
IS-18-A9-S2	95B063941	BASIC	24
IS-18-B1-03	95B062141	BASIC	25
IS-18-B1-S2	95B062151	BASIC	25
IS-18-B2-03	95B062161	BASIC	25
IS-18-B2-S2	95B062171	BASIC	25
IS-18-B3-03	95B062101	BASIC	25
IS-18-B3-S2	95B062111	BASIC	25
IS-18-B4-03	95B062121	BASIC	25
IS-18-B4-S2	95B062131	BASIC	25
IS-18-C0-03	95B064240	BASIC	24
IS-18-C0-S2	95B064280	BASIC	24
IS-18-C1-03	95B061741	BASIC	24
IS-18-C1-S2	95B061751	BASIC	24
IS-18-C20-03	95B064370	NAMUR	67
IS-18-C20-S2	95B064390	NAMUR	67
IS-18-C2-03	95B061761	BASIC	24
IS-18-C2-S2	95B061771	BASIC	24
IS-18-C3-03	95B061701	BASIC	24
IS-18-C3-S2	95B061711	BASIC	24
IS-18-C4-03	95B061721	BASIC	24
IS-18-C4-S2	95B061731	BASIC	24
IS-18-C9-03	95B064310	BASIC	24
IS-18-C9-S2	95B064340	BASIC	24
IS-18-D1-03	95B062541	BASIC	25
IS-18-D1-S2	95B062551	BASIC	25
IS-18-D2-03	95B062561	BASIC	25
IS-18-D2-S2	95B062571	BASIC	25
IS-18-D3-03	95B062501	BASIC	25
IS-18-D3-S2	95B062511	BASIC	25
IS-18-D4-03	95B062521	BASIC	25
IS-18-D4-S2	95B062531	BASIC	25

IS-18-E0-03	95B067270	BASIC	26
IS-18-E0-S2	95B067310	BASIC	26
IS-18-E9-03	95B067280	BASIC	26
IS-18-E9-S2	95B067320	BASIC	26
IS-18-F0-03	95B067290	BASIC	26
IS-18-F0-S2	95B067330	BASIC	26
IS-18-F1-S2	95B067040	BASIC	26
IS-18-F9-03	95B067300	BASIC	26
IS-18-F9-S2	95B067340	BASIC	26
IS-18-G1-03	95B063521	BASIC	27
IS-18-G1-S2	95B063531	BASIC	27
IS-18-G2-03	95B063541	BASIC	27
IS-18-G2-S2	95B063551	BASIC	27
IS-18-G3-03	95B063061	BASIC	27
IS-18-G3-S2	95B063491	BASIC	27
IS-18-G4-03	95B063501	BASIC	27
IS-18-G4-S2	95B063511	BASIC	27
IS-18-G5-03	95B062721	BASIC	27
IS-18-G5-S2	95B062731	BASIC	27
IS-18-G6-03	95B064200	BASIC	27
IS-18-G6-S2	95B062711	BASIC	27
IS-18-H1-03	95B063601	BASIC	27
IS-18-H1-S2	95B063611	BASIC	27
IS-18-H2-03	95B063621	BASIC	27
IS-18-H2-S2	95B063631	BASIC	27
IS-18-H3-03	95B063561	BASIC	27
IS-18-H3-S2	95B063571	BASIC	27
IS-18-H4-03	95B063581	BASIC	27
IS-18-H4-S2	95B063591	BASIC	27
IS-18-H5-03	95B064220	BASIC	27
IS-18-H5-S2	95B062811	BASIC	27
IS-18-H6-03	95B064210	BASIC	27
IS-18-H6-S2	95B062791	BASIC	27
IS-18-I1-S2	95B065350	METAL FACE	49
IS-18-L1-S2	95B063881	METAL FACE	49
IS-18-M1-S2	95B060320	STAINLESS STEEL	42
IS-18-M2-S2	95B060330	STAINLESS STEEL	42
IS-18-M3-S2	95B060340	STAINLESS STEEL	42
IS-18-M4-S2	95B060350	STAINLESS STEEL	42
IS-18-N1-S2	95B060360	STAINLESS STEEL	42
IS-18-N2-S2	95B060370	STAINLESS STEEL	42
IS-18-N3-S2	95B060380	STAINLESS STEEL	42
IS-18-N4-S2	95B060390	STAINLESS STEEL	42
IS-18-01-52	95B060080	STAINLESS STEEL	43
IS-18-02-52	95B060090	STAINLESS STEEL	43
IS-18-03-S2	95B060100	STAINLESS STEEL	43
IS-18-04-52	95B060110	STAINLESS STEEL	43
IS-18-P1-S2	95B060120	STAINLESS STEEL	43
IS-18-P2-S2	95B060130	STAINLESS STEEL	43
IS-18-P3-S2	95B060140	STAINLESS STEEL	43
IS-18-P4-S2	95B060150	STAINLESS STEEL	43
IS-F18-S1-S2	95B065380	WELD FIELD IMMUNE	53
IS-F18-T1-S2	95B065390	WELD FIELD IMMUNE	53
IS-F18-T1-S2	95B065390	WELD FIELD IMMUNE	53

M30				
SENSOR	Order No.	Category	Pag.	
IS-30-A0-03	95B064460	BASIC	28	
IS-30-A0-S2	95B064490	BASIC	28	
IS-30-A1-03	95B061421	BASIC	28	
IS-30-A1-S2	95B061431	BASIC	28	
IS-30-A15-03	95B060810	INDUCTIVE AC	58	
IS-30-A15-S2	95B060820	INDUCTIVE AC	58	
IS-30-A20-03	95B064610	NAMUR	68	
IS-30-A20-S2	95B064630	NAMUR	68	
IS-30-A2-03	95B061441	BASIC	28	
IS-30-A2-S2	95B061451	BASIC	28	
IS-30-A3-03	95B061381	BASIC	28	

IS-30-A4-S2	95B061411	BASIC	28
IS-30-A9-03	95B064530	BASIC	28
IS-30-A9-S2	95B064570	BASIC	28
IS-30-B1-03	95B062221	BASIC	29
IS-30-B1-S2	95B062231	BASIC	29
IS-30-B2-03	95B062241	BASIC	29
IS-30-B2-S2	95B062251	BASIC	29
IS-30-B3-03	95B062181	BASIC	29
			29
IS-30-B3-S2	95B062191	BASIC	
IS-30-B4-03	95B062201	BASIC	29
IS-30-B4-S2	95B062211	BASIC	29
IS-30-C0-03	95B064470	BASIC	28
IS-30-C0-S2	95B064510	BASIC	28
IS-30-C1-03	95B061821	BASIC	28
IS-30-C1-S2	95B061831	BASIC	28
IS-30-C20-03	95B064620	NAMUR	68
IS-30-C20-S2	95B064640	NAMUR	68
IS-30-C2-03	95B061841	BASIC	28
IS-30-C2-S2	95B061851	BASIC	28
IS-30-C3-03	95B061781	BASIC	28
IS-30-C3-S2	95B061791	BASIC	28
IS-30-C4-03	95B061801	BASIC	28
IS-30-C4-S2	95B061811	BASIC	28
IS-30-C9-03	95B064550	BASIC	28
IS-30-C9-S2	95B064590	BASIC	28
IS-30-D1-03	95B062621	BASIC	29
IS-30-D1-S2	95B062631	BASIC	29
IS-30-D2-03	95B062641	BASIC	29
IS-30-D2-S2	95B062651	BASIC	29
IS-30-D3-03	95B062581	BASIC	29
IS-30-D3-S2	95B062591	BASIC	29
IS-30-D4-03	95B062601	BASIC	29
IS-30-D4-S2	95B062611	BASIC	29
IS-30-E0-03	95B067350	BASIC	30
IS-30-E0-S2	95B067390	BASIC	30
IS-30-E1-S2	95B067060	BASIC	30
IS-30-E9-03	95B067360	BASIC	30
IS-30-E9-S2	95B067400	BASIC	30
IS-30-F0-03	95B067370	BASIC	30
IS-30-F0-S2	95B067410	BASIC	30
IS-30-F9-03	95B067380	BASIC	30
IS-30-F9-S2	95B067420	BASIC	30
IS-30-G1-03	95B063681	BASIC	31
IS-30-G1-S2	95B063691	BASIC	31
IS-30-G2-03	95B063701	BASIC	31
IS-30-G2-S2	95B063711	BASIC	31
IS-30-G3-03	95B063641	BASIC	31
IS-30-G3-S2	95B063651	BASIC	31
IS-30-G4-03	95B063661	BASIC	31
IS-30-G4-S2	95B063671	BASIC	31
IS-30-G5-03	95B063821	BASIC	31
IS-30-G5-S2	95B063831	BASIC	31
IS-30-G6-03	95B064400	BASIC	31
IS-30-G6-S2	95B064430	BASIC	31
IS-30-H1-03	95B063761	BASIC	31
IS-30-H1-S2	95B063771	BASIC	31
IS-30-H2-03	95B063781	BASIC	31
IS-30-H2-S2	95B063791	BASIC	31
IS-30-H3-03	95B063721	BASIC	31
IS-30-H3-S2	95B063721 95B063731		31
		BASIC	
IS-30-H4-03	95B063741	BASIC	31
IS-30-H4-S2	95B063751	BASIC	31
IS-30-H5-03	95B064420	BASIC	31
IS-30-H5-S2	95B064450	BASIC	31
IS-30-H6-03	95B064410	BASIC	31
IS-30-H6-S2	95B064440	BASIC	31
IS-30-M1-S2	95B060400	STAINLESS STEEL	44
IS-30-M2-S2	95B060410	STAINLESS STEEL	44

IS-30-M3-S2	95B060420	STAINLESS STEEL	44
IS-30-M2-S2	95B060410	STAINLESS STEEL	44
IS-30-M3-S2	95B060420	STAINLESS STEEL	44
IS-30-M4-S2	95B060430	STAINLESS STEEL	44
IS-30-N1-S2	95B060440	STAINLESS STEEL	44
IS-30-N2-S2	95B060450	STAINLESS STEEL	44
IS-30-N3-S2	95B060460	STAINLESS STEEL	44
IS-30-N4-S2	95B060470	STAINLESS STEEL	44
IS-30-01-S2	95B060160	STAINLESS STEEL	45
IS-30-02-S2	95B060170	STAINLESS STEEL	45
IS-30-03-S2	95B060180	STAINLESS STEEL	45
IS-30-04-S2	95B060190	STAINLESS STEEL	45
IS-30-P1-S2	95B060200	STAINLESS STEEL	45
IS-30-P2-S2	95B060210	STAINLESS STEEL	45
IS-30-P3-S2	95B060220	STAINLESS STEEL	45
IS-30-P4-S2	95B060230	STAINLESS STEEL	45

SQUARE					
SENSOR	Order No.	Category	Pag.		
IS-40-C11-S3	95B065330	SQUARE	74		
IS-40-W5-S3	95B065240	SQUARE	72		
IS-40-W6-S3	95B065230	SQUARE	72		
IS-40-W7-S3	95B065250	SQUARE	73		
IS-40-W8-S3	95B065260	SQUARE	73		
IS-40-X5-S2	95B065320	SQUARE	74		
IS-40-X6-S2	95B065310	SQUARE	74		
IS-40-Y5-S3	95B065280	SQUARE	72		
IS-40-Y6-S3	95B065270	SQUARE	72		
IS-40-Y7-S3	95B065290	SQUARE	73		
IS-40-Y8-S3	95B065300	SQUARE	73		
IS-88-Q1-03	95B060830	SQUARE	75		
IS-88-Q1-S1	95B060840	SQUARE	75		

CAPACITIVE

	Ν	/18	
SENSOR	Order No.	Category	Pag.
CS08K2	958901040	basic	78
CS07K2	958901000	basic	78
CS08	958901020	basic	78
CS07	958901160	basic	78
CS14K2	958901270	basic	78
CS13K2	958901250	basic	78
CS14	958901120	basic	78
CS13	958901100	basic	78
CSP40K4	958901380	Capacitve A.C.	80
CSP41K4	958901390	Capacitve A.C.	80

	Ν	/130	
SENSOR	Order No.	Category	Pag.
CS10K2	958901080	basic	79
CS10	958901060	basic	79
CS16K2	958901330	basic	79
CS16	958901140	basic	79
CS09K2	958901230	basic	79
CS09	958901180	basic	79
CS15K2	958901300	basic	79
CS15	958901200	basic	79
CSP50K4	958901400	Capacitve A.C.	81
CSP51K4	958901410	Capacitve A.C.	81
CS31	958901150	Multi-voltage (timer)	82
CS32	958901220	Multi-voltage (timer)	82
CS31TD5	958901350	Multi-voltage (timer)	82
CS32TD5	958901360	Multi-voltage (timer)	82
CS31TE5	958901210	Multi-voltage (timer)	82
CS32TE5	958901370	Multi-voltage (timer)	82

NOTE

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HEADQUARTERS

Datalogic Automation Srl Via Lavino, 265 40050 Monte San Pietro - Bologna - Italy Tel. +39 051/6765611 Fax +39 051/6759324 info.automation.it@datalogic.com

BRANCHES AND SALES OFFICES

EUROPE BENELUX

Datalogic Automation Benelux

Newtonweg 3 4104 BK Culemborg The Netherlands Tel. +31 345/589489 Fax +31 345/511419 info.automation.nl@datalogic.com

FRANCE

Datalogic Automation Srl

Succursale en France Le Parc Technologique de Lyon 333 cours du 3ème Millénaire - Le Pôle 69800 Saint Priest Tél. +33 (0)4/72476180 Fax +33 (0)4/72470721 info.automation.fr@datalogic.com

GERMANY

Datalogic Automation Srl

Niederlassung Central Europe Gottlieb-Stoll-Straße 1, 73271 Holzmaden Tel. +49 7023 7453-100 Fax +49 7023 7453-129 info.automation.de@datalogic.com

ITALY

Datalogic Automation Srl

Via Lavino, 265 40050 Monte San Pietro - Bologna Tel. +39 051/6765611 Fax +39 051/6759324 info.automation.it@datalogic.com

Datalogic Automation Srl

LASER MARKING Via Le Gorrey, 10 11020, Donnas - Aosta Tel. +39-0125-8128201 Fax +39-0125-8128401 info.automation.it@datalogic.com Via Dell'Industria 15, 21018 Sesto Calende - Varese Tel. +39-03319180601 Fax +39-03319180801 info.automation.it@datalogic.com

SPAIN

Datalogic Automation Iberia

Sucursal en España C/Samontà, 21 Planta baja, Local 0 08970 Sant Joan Despí - Barcelona Tel. +34 (0)93/4772059 Fax +34 (0)93/4777272 info.automation.es@datalogic.com

NORDIC

Datalogic Automation AB Höjdrodergatan 21

21239 Malmö - Sweden Tel. +46 (0)40/385000 Fax +46 (0)40/385001 info.automation.se@datalogic.com

UNITED KINGDOM

Datalogic Automation UK Datalogic House Dunstable Road, Redbourn - Herfordshire AL3 7PR Tel. +44 (0) 1582 791750 Fax +44 (0) 1582 791769 info.automation.uk@datalogic.com

TURKEY

Datalogic ADC Turkey No:16 Neo Vista Sitesi C1 Blok D.7 Gokturk/Kemerburgaz 34077 - Istanbul, Turkey info.adc.tr@datalogic.com

NORTH AMERICA

Datalogic Automation Inc

511 School House Road Telford, PA 18969-1196 - United States Tel. +1-800-BAR-CODE or +1-215-723-0981 Fax +1-215-721-5551 info.automation.us@datalogic.com

Datalogic Automation Inc

MACHINE VISION 5775 W Old Shakopee Rd STE 160, Bloomington, MN 55437 United States Tel. +1-952-996-9500 Fax +1-952-996-9501 info.automation.us@datalogic.com

SOUTH AMERICA

Datalogic Bra<u>zil</u>

Rua Arandu, 281 CJ 32 Broklin Novo, 04562-030 Sao Paulo, Brazil Tel. +55 11 5507 7721 orders.ia.int@datalogic.com

APAC

AUSTRALIA-NEW ZEALAND Datalogic Automation Pty Ltd

Unit 130, 45 Gilby Road Mt Waverley - Victoria, 3149 - Australia Tel. +61 (0)3/95589299 Fax: +61 (0)3/95589233 info.automation.au@datalogic.com

CHINA

Datalogic Automation Asia

Floor 20, Room 2017, Building 2, 16 West Nan San Huan Road Fengtai District, Beijing Tel: +86 (0)21-5836 6692 Fax: +86 (0)21-5836 6695 info.automation.cn@datalogic.com

Suite 1301, Hua Rong Plaza,

1289 South Pudong Road, Pudong District Shanghai 200120 Tel: +86 (0)21-5836 6692 Fax: +86 (0)21-5836 6695 info.automation.cn@datalogic.com

Room 1104B, 5#Tower, Fantasta MIC Plaza, West Nanhai Road, Nanshan District, 518054 Shenzhen, Guangdong, China Tel: +86 (0)755-8628 6779 Fax: +86 (0)755-8628 1280 info.automation.cn@datalogic.com

1202, Excellence Build, 128 Yanji Road, Shibei District, Qingdao, China Tel: +86 532 55787889 Fax:+86 532 55787890

JAPAN

Idec Datalogic Co. Ltd 10-40, Mikuni-Honmachi 1-Chome, Yodogawa-ku, Osaka 532 0005 Tel. +81(6) 6398/3200 Fax +81 (6) 6398/3202 www.idljp.com



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