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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 in 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

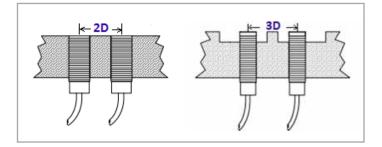
- -only detect metallic objects -low operating distance -sensitive to electromagnetic interference
- (such as electric welding, induction ovens)

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 $\geq 3D$. 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.

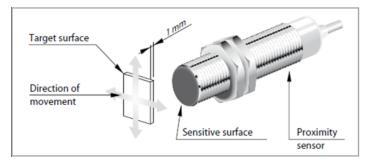
WELD FIELD IMMUNE version:

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.

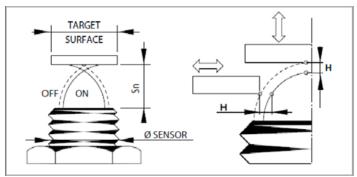


When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

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):

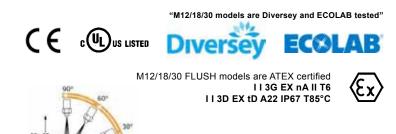
distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



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).



IP69K

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

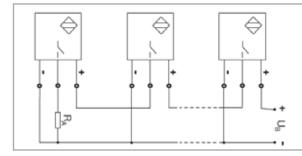
The following table shows the approximate length (mm) intervals for all categories and models of tubular inductive sensors.

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

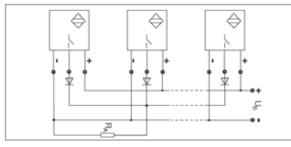
WIRES

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 prevents the sensor from being 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

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 11
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC ÷.
- IP67 protection

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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

NAMUR

- PNP, NPN, NO, NC н.
- IP69K protection

INDUCTIVE AC

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

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

li b Sule Shu

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

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METAL FACE

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

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

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

CAPACITIVE

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- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (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

CABLES, CONNECTORS & ACCESSORIES

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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 mmdiameter: 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 (Analog vers.)
- diameter: 40 mm
- 2, 3 wires

Street and Street and All and

- 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

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-

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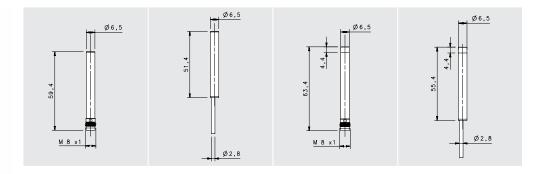
"M12/18/30 models are Diversey and ECOLAB tested"





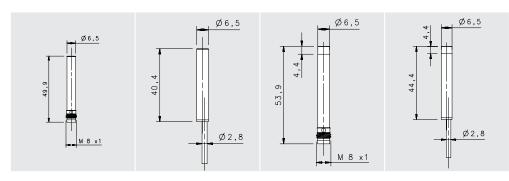
BASIC M6.5





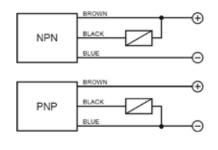
					STAN	IDARD	
				FLU	SH	NON F	LUSH
				M8 conn	cable	M8 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	2 mm	2 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.	IS-65-A1-S1 95B066050	IS-65-A1-03 95B064730	IS-65-C1-S1 95B066210	IS-65-C1-03 95B064890
10-30 Vdc	PNP NC	3 wires	order No.	IS-65-A2-S1 95B066090	IS-65-A2-03 95B064770	IS-65-C2-S1 95B066250	IS-65-C2-03 95B066300
10-30 Vdc	NPN NO	3 wires	order No.	IS-65-A3-S1 95B064970	IS-65-A3-03 95B064650	IS-65-C3-S1 95B066130	IS-65-C3-03 95B064810
10-30 Vdc	NPN NC	3 wires	order No.	IS-65-A4-S1 95B066010	IS-65-A4-03 95B064690	IS-65-C4-S1 95B066170	IS-65-C4-03 95B064850
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	2/3wires	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 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 (l=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			
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	



	SH	ORT	
FLL	ISH	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)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 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	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa 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

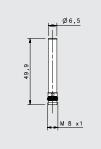


M8 3 pole

, <u>,</u>			
CONT	ACTS CON	FIGURAT	ION
CONT	ACTS CON	FIGURAT itacts num	
Available			

BASIC M6.5







< 1,2 V (I=100mA)

Yellow

500 Hz

< 75 ms

SHORT X2

				FLUSH			
				M8 conn	cable		
NOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm		
10-30 Vdc	PNP/NPN	4 wires					
10-50 Vac	NO-NC	4 WIIES	order No.				
10-30 Vdc	PNP	3 wires		IS-65-G1-S1	IS-65-G1-03		
10-30 Vuc	NO	5 WILES	order No.	95B066060	95B064740		
10-30 Vdc	PNP	3 wires		IS-65-G2-S1	IS-65-G2-03		
10-50 Vul	NC	5 WILES	order No.	95B066100	95B064780		
10-30 Vdc	NPN	3 wires		IS-65-G3-S1	IS-65-G3-03		
10-50 Vul	NO	5 WILES	order No.	95B064980	95B064660		
10-30 Vdc	NPN	3 wires		IS-65-G4-S1	IS-65-G4-03		
10-30 Vac	NC	3 wires	order No.	95B066020	95B064700		
10. 20 \/d-	PNP	1					
10-30 Vdc	NO-NC	4 wires	order No.				
40.2014-	NPN	1					
10-30 Vdc	NO-NC	4 wires	order No.				
40.0014-		2					
10-30 Vdc	NO-NC	2 wires	order No.				
20.250.1//1//	NO	2					
20-250 Vac/Vdc	NO	2 wires	order No.				
	NC	2					
20-250 Vac/Vdc	NC	2 wires	order No.				
20.250.1/24	NO	2/2					
20-250 Vac	NO	2/3 wires	order No.				
10. 20.)/d-	Analog	2					
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%)		
Residual Ripple				< 10%	< 10%		
Hysteresis				< 10%	< 10%		
Max. Output Currer	nt			200 mA	200 mA		
Min. Output Curre	nt						
Residual Current				< 10 mA	< 10 mA		

< 1,2 V (I=100mA)

Yellow

500 Hz

< 75 ms

peatability	< 3%	< 3%
ort Circuit Protection	Present (self-resetting)	Present (self-resetting)
ectric Protection	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		3 x 0,14 mm²
using Material	Nickel-plated brass	Nickel-plated brass
eight - Cable Output		80 g
eight - Connector Output	40 g	

Voltage Drop Operation Led

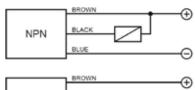
Start Up Delay

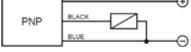
Switching Frequency



SHOR	PT X 2
NON F	
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 mm²
Nickel-plated brass	Nickel-plated brass
	80 g
40 g	





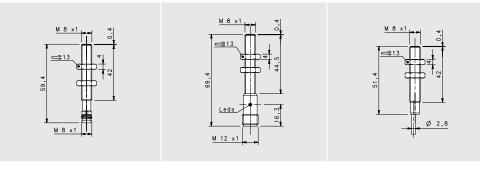


M8 3 pole



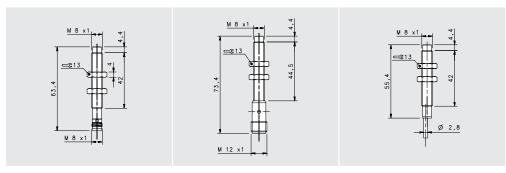
1000000	Contacts numbers			
Available	1 HEOWN	3	4 BACK	
NPN/PNP	+	_	NONC	





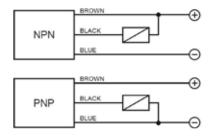
					STANDARD			
					FLUSH			
				M8 conn	M12 conn	cable		
NOMINAL SWITCH	ING DISTAN	Œ		1,5 mm	1,5 mm	1,5 mm		
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC		order No.					
10-30 Vdc	PNP	3 wires		IS-08-A1-S1	IS-08-A1-S2	IS-08-A1-03		
	NO	5 11105	order No.	95B061141	95B061131	95B061121		
10-30 Vdc	PNP	3 wires		IS-08-A2-S1	IS-08-A2-S2	IS-08-A2-03		
	NC	5 WIICS	order No.	95B061171	95B061161	95B061151		
10-30 Vdc	NPN	NPN	NPN	3 wires		IS-08-A3-S1	IS-08-A3-S2	IS-08-A3-03
10-30 440	NO	5 WIES	order No.	95B061081	95B061071	95B061061		
10-30 Vdc	NPN	3 wires		IS-08-A4-S1	IS-08-A4-S2	IS-08-A4-03		
10-30 Vuc	NC		order No.	95B061111	95B061101	95B061091		
10-30 Vdc	PNP	4 wires						
10-50 Vul	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	(
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc		2						
10-30 Vac	NU-INC	NO-NC	2 wires	order No.				
20.250.11 ().14-	NO	2						
20-250 Vac/Vdc	NO	2 wires	order No.					
20.250.11-10.14-	NC	2						
20-250 Vac/Vdc	NC	2 wires	order No.					
20. 250 1/	NO	2/2						
20-250 Vac	NO	2/3 wires	order No.					
40.001/4-	Analog	2						
10-30 Vdc	0-20 mA	3 wires	order No.					
		<u> </u>						
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	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
Cable Length			2 m
Cable 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	958066450
10 20 V/dc/ 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 < 50 ms	1000 Hz < 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



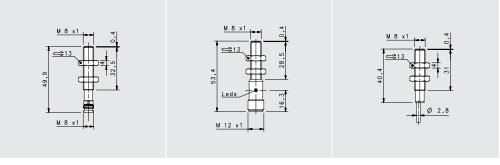
Available		Contacts	numbers	
	1	2	3	4
(NO or NC)	+		-	NO/NC

M8 3 pole

•)•
CONTACTS CONFI

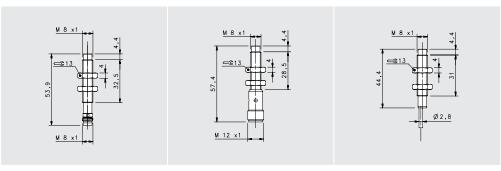
Available	Contacts numbers			
	1 INCOM	3	4 BACK	
NPN/PNP	+	-	NONC	





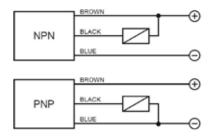
					SHORT	
					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	PNP	3 wires		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03
	NO		order No.	95B066860	95B066590	95B061921
10-30 Vdc	PNP	3 wires		IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03
10-20 400	NC	JWIES	order No.	95B066890	95B066620	95B061951
10-30 Vdc	NPN	Zwiroc		IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03
10-50 Vuc	NO	3 wires	order No.	95B066810	95B066530	95B061861
10-30 Vdc	NPN	2		IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03
10-30 Vac	NC	3 wires	order No.	95B066830	95B066560	95B061891
10-30 Vdc	PNP	4 wires				
10-50 Vul	NO-NC	4 wires	order No.			
40.001/4-	NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires				
10-50 Vuc	NU-NC	2 WIIES	order No.			
	NO	2				
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	Quine				
20-250 Vac/ Vuc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires				
20-250 Vac	NO	Z/ 5 WILES	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 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	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
Cable Length			2 m
Cable 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	



ND FLUSH MB conn M12 conn cable 2 mm 2 mm 2 mm 2 mm 15-08-01-51 15-08-02-52 15-08-02-231 9500669700 9580066700 958006630 958006630 950066920 9580066700 958006630 958006630 15-08-04-51 15-08-04-52 15-08-04-03 9580066920 9580066700 958006630 9580066920 958006670 9580063201 <		SHORT	
M8 conn M12 conn cable 2 mm 2 mm 2 mm 1 1 1 1 1 1 1 1 1 1 1 1 1			
2 nm 2 nm 2 nm IS-08-D1-51 IS-08-D1-52 IS-08-D1-03 958066970 958066700 95806231 IS-08-D2-51 IS-08-D2-52 IS-08-D2-03 958066700 958066700 95806231 IS-08-D2-51 IS-08-D3-52 IS-08-D3-03 958066920 958066670 95806231 IS-08-D4-51 IS-08-D4-52 IS-08-D4-03 958066940 958066670 958062291			
I I I I I I <tr< th=""><th>M8 conn</th><th>M12 conn</th><th>cable</th></tr<>	M8 conn	M12 conn	cable
IS-08-D1-51 IS-08-D1-52 IS-08-D1-03 SISB06570 SISB06700 SISB06700 IS-08-D2-51 IS-08-D2-52 IS-08-D2-03 IS-08-D3-51 IS-08-D3-52 IS-08-D3-03 SISB067000 SISB066500 SISB0666430 IS-08-0-35-51 IS-08-D3-52 IS-08-D4-03 SISB065940 SISB066670 SISB065940 SISB065940 SISB066670 SISB0629211	2 mm	2 mm	2 mm
IS-08-D1-S1 IS-08-D1-S2 IS-08-D1-03 958066970 958066700 958062231 IS-08-D2-S1 IS-08-D2-S2 IS-08-D2-03 95806700 958066720 958066720 958066920 958066620 95806630 IS-08-D3-S1 IS-08-D3-S2 IS-08-D3-03 958066920 958066620 95806630 IS-08-D4-S1 IS-08-D4-S2 IS-08-D4-03 958066920 958066670 958062291			
958066970 958066700 958066700 958066700 958066700 958066700 958066700 958066700 958066700 958066800 958066800 958066800 958066670 958066291 15-08-D3-52 15-08-D4-53 15-08-D4-53 15-08-D4-53 958066291 958066670 958066291 958066670 958066291 958066291 958066291 958066291 958066291 958066291 958066291 958066291 958066291 958066291 958066291 958066291 9580629291 9580629291			
IS-08-D2-51 IS-08-D2-52 IS-08-D2-03 9550067000 958066720 958066230 955006920 958066520 958066430 IS-08-D4-51 IS-08-D4-52 IS-08-04-03 958066940 958066670 958066291 958066940 958066670 958066291	IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03
958067000 958066720 95806623 IS-08-03-S1 IS-08-03-S2 IS-08-03-03 958066920 958066650 95806640 IS-08-04-S1 IS-08-04-S2 IS-08-04-03 958066940 958066670 958062291 <td>95B066970</td> <td>95B066700</td> <td>95B062321</td>	95B066970	95B066700	95B062321
IS-08-D3-51 IS-08-D3-52 IS-08-D3-03 9550066920 9550066930 9550066930 IS-08-D4-51 IS-08-D4-52 IS-08-D4-03 9550066940 9550066970 955006291	IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
958066920 95806650 958066430 I5-08-04-51 I5-08-04-52 I5-08-04-33 958066940 958066670 958062291 10-30 Vdc	95B067000	95B066720	95B062351
IS-08-D4-S1 IS-08-D4-S2 IS-08-D4-03 95B066940 95B06670 95B062211 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10/3	IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
95B066940 95B066670 95B062291 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%)	95B066920	95B066650	95B066430
	IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
	95B066940	95B066670	95B062291
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10 10 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10 10% 1000 Hz			
1000A <t< td=""><td></td><td></td><td></td></t<>			
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 100% <10%			
<td></td> <td></td> <td></td>			
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%			
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%			
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%			
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%			
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) < 10%			
< 10%			
< 10%	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10% < 10% < 10% 200mA 200mA 200mA < 10 mA			
200mA 200mA 200mA < 10 mA			
< 10 mA			
< 10 mA < 10 mA < 10 mA < 1,2 V (I=100mA)			
< 1,2 V (I=100mA)			
YellowYellowYellow1000 Hz1000 Hz1000 Hz< 50 ms			
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)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25+70 °C)(-25+70 °C)(-25+70 °C)IP67IP67IP672 m3x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brass			
Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25+70 °C)(-25+70 °C)(-25+70 °C)IP67IP67IP672 m3x 0,14 mm²Nickel-plated brassNickel-plated brass			
Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25+70 °C)(-25+70 °C)(-25+70 °C)IP67IP67IP672 m2 m3x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brass			
(-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	Against polarity reversal	Against polarity reversal	Against polarity reversal
IP67 IP67 IP67 2 m 2 m 3x 0,14 mm² 3x 0,14 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass			
2 m 3x 0,14 mm² Nickel-plated brass Nickel-plated brass			
3x 0,14 mm²Nickel-plated brassNickel-plated brass			
Nickel-plated brass Nickel-plated brass Nickel-plated brass			
80.6	NICKEI-PIACEO DRASS	ivickei-piateo brass	
35g 55g	25-	FF-	

3 wires PNP or NPN



M12 3 pole



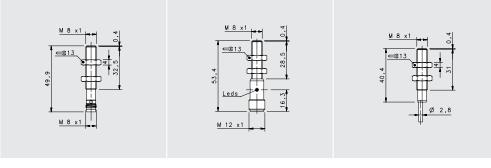
Available		Contacts	numbers	
	1	2	3	4
(NO or NC)	+		_	NO/NC

M8 3 pole

1	•
•(•	•),
_	CONTACTS CONFIC

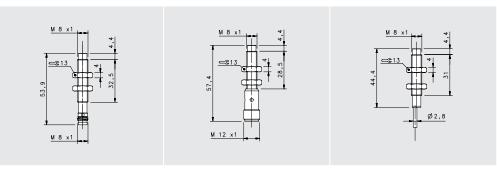
1000000	Cor	dacts num	beis
Available	1 HEOWN	3	4 BACK
NPN/PNP	+	-	NONC





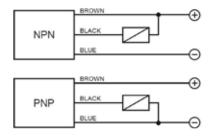
					SHORT X2	
					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm	2 mm
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC	4 WIICS	order No.			
10-30 Vdc	PNP	3 wires		IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03
10-50 vac	NO	J WIIES	order No.	95B066850	95B066580	95B066370
10-30 Vdc	PNP	3 wires		IS-08-G2-S1	IS-08-G2-S2	IS-08-G2-03
10-30 Vac	NC	J WIIES	order No.	95B066880	95B066610	95B066390
10-30 Vdc	NPN	3 wires		IS-08-G3-S1	IS-08-G3-S2	IS-08-G3-03
10-50 Vuc	NO	5 WILES	order No.	95B066800	95B066520	95B066330
10-30 Vdc	NPN	3 wires		IS-08-G4-S1	IS-08-G4-S2	IS-08-G4-03
10-50 Vul	NC	5 WILES	order No.	95B063131	95B066550	95B066350
10-30 Vdc	PNP	4 wires				
10-30 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	NU-NC	2 WIIES	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac/ Vuc	NU	2 WIIES	order No.			
20-250 Vac/Vdc	NC	2 wires				
20-250 Vac/ Vuc	NC	2 WIIes	order No.			
20-250 Vac	NO	2/3 wires				
20-250 Val	NU	Z/ 5 WILES	order No.			
10-30 Vdc	Analog	Zwiroc				
10-50 VuC	0-20 mA	3 wires	order No.			
		Justines				
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
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	SHORT X2	
	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 20 14- (15 (10%)		10 20 14- / 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
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)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



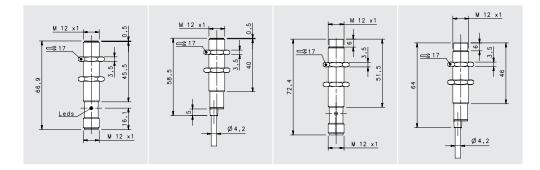
and the second second	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		_	NO/NC	

M8 3 pole

-	_	
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1)	
_	_	

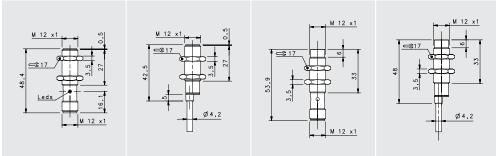
AND AND A	Contacts numbers			
Available	1 HIGHN	3	4 BACK	
NPN/PNP	+	-	NONC	





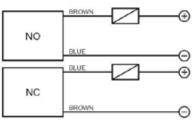
					STAN	DARD		
				FLUS	5H	NON FL	.USH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	4 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires		IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03	
10-30 Vac	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040	
10. 20.)/d-	PNP	2		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03	
10-30 Vdc	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641	
40.2014-	PNP	2		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03	
10-30 Vdc	NC	3 wires	order No.	95B061281	95B061271	95B061681	95B061671	
40.2014-	NPN	2		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03	
10-30 Vdc	NO	3 wires	order No.	95B061191	95B061181	95B061591	95B061581	
40.00141	NPN	<u> </u>		IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03	
10-30 Vdc	NC	3 wires	order No.	95B061221	95B061211	95B061621	95B061611	
40.001/1	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN							
10-30 Vdc	NO-NC		NO-NC ^{4 wires}	order No.				
				IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B063931	95B064100	95B064140	95B064110	
20.25014 444		<u> </u>						
20-250 Vac/Vdc	NO	2 wires	order No.					
	NC	<u> </u>						
20-250 Vac/Vdc	NC	2 wires	order No.					
20.2501/								
20-250 Vac	NO	2/3 wires	order No.					
10 20 1/4-	Analog	2						
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%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)			
Min. Output Current	> 1,6 mA (2wires)			
Residual Current	< 10mA; < 1,6 mA (2wires)			
Voltage Drop	< 1,8V; < 6,5 V (2wires)			
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 +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 mm²		2/3/4 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	

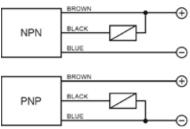


	M 12 ×1	Ø4.2	
		I	3 wire
H	ORT		
	NON F	FLUSH	NPN
	M12conn	cable	
	4 mm	4 mm	
			PNF
	IS-12-D1-S2	IS-12-D1-03	
	95B062451	95B062441	
	IS-12-D2-S2	IS-12-D2-03	
	95B062481	95B062471	/ wire

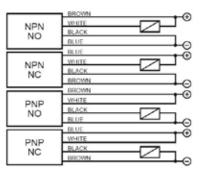
2 wires NO or NC



es PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

A.1.20.204		Contacts	numbers	
Available	1	2	3	- 4
NO	+		-	
NC	-		+	

3 wires

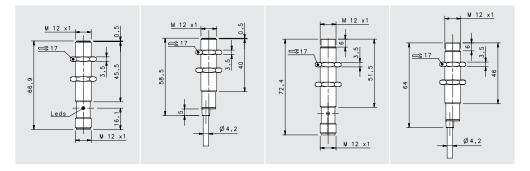
California -		Contacts	numbers	
Avenable	:1	2	3	4
(NO or NC)	+		-	NONC

4 wires (PNP/NPN, NO/NC)

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

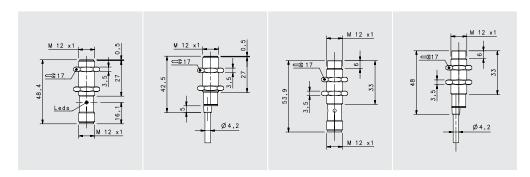
SHORT						
FLU	JSH	NON FLUSH				
M12 conn	cable	M12conn	cable			
2 mm	2 mm	4 mm	4 mm			
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03			
95B062051	95B062041	95B062451	95B062441			
IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03			
95B062081	95B062071	95B062481	95B062471			
IS-12-B3-S2	IS-12-B3-03	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)	< 1,8 V (I=100mA)	< 1,8 V (I=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-resettin			
-		Against polarity reversal	Against polarity revers			
Against polarity reversal inductive loads	Against polarity reversal inductive loads	inductive loads	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 g		110 g			
60 g		60 g				



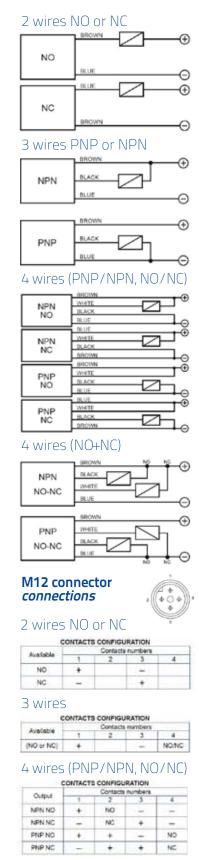


					STAND	ARD X2		
				FLU	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	ANCE		4 mm		8 r	nm	
10-30 Vdc	PNP/NPN	4 wires		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03	
10-30 Vuc	NO-NC	4 WIIES	order No.	95B067230	95B067190	95B067250	95B067210	
10-30 Vdc	PNP	3 wires		IS-12-E1-S2		IS-12-F1-S2		
	NO	5 WIIC5	order No.	95B067030		95B067020		
10-30 Vdc	PNP	3 wires						
	NC	5 11105	order No.					
10-30 Vdc	NPN	3 wires						
	NO	5 11105	order No.					
10-30 Vdc	NPN	3 wires						
	NC	5 11105	order No.					
10-30 Vdc	PNP	4 wires	ic l					
	NO-NC	4 WIICS	order No.					
10-30 Vdc	NPN	4 wires						
	NO-NC	4 WIICS	order No.					
10-30 Vdc	NO-NC	2 wires		IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03	
10-30 vuc	NO-NC	2 WIIES	order No.	95B067240	95B067200	95B067260	95B067220	
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac7 Vuc	NO	2 WIIES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/ Vuc	NC .	2 111125	order No.					
20-250 Vac	NO	2/3wires						
20-230 Vac	NO	2/ 5 10125	order No.					
10-30 Vdc	Analog	3 wires						
	0-20 mA	JWIIES	order No.					
NAMUR amplifier	NAMUR	2 wires						
Amon ampimer	NAMOR	2 111125	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			100 mA	100 mA	100 mA	100 mA	
Min. Output Curre	nt							
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	Yellow	Yellow	
Switching Frequer	псу			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-N	
Start Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	

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	60 g	60 g	60 g	60 g



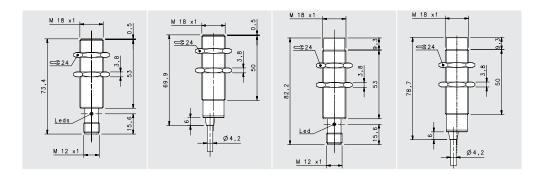
	SHOP	RT X2		
FLL	JSH	NON FLUSH		
M12 con	cable	M12 conn	cable	
4 mm	4 mm	8 mm	8 mm	
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03	
95B063371	95B063361	95B063451	95B063441	
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03	
95B063391	95B063381	95B063471	95B063461	
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03	
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 mm²		3 x 0,25 mm²	
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
	110 g		110 g	
60 g		60 g		



4 wires (NO+NC)

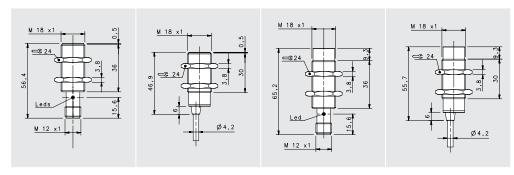
Available		Contacts	numbers	
Avalable	1	2	3	4
(NO + NC)	+	NC-	-	NO





				STANDARD			
				FLU:	5н	NON FLUSH	
				M12 conn	cable	M12 conn	cable
IOMINAL SWITCH	ING DISTAN	CE		5 mm	5 mm	8 mm	8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	IS-18-A0-S2 95B064260	IS-18-A0-03 95B064230	IS-18-C0-S2 95B064280	IS-18-C0-03 95B064240
10-30 Vdc	PNP NO	3 wires	order No.	IS-18-A1-S2 95B061351	IS-18-A1-03 95B061341	IS-18-C1-S2 95B061751	IS-18-C1-03 95B061741
10-30 Vdc	PNP NC	3 wires	order No.	IS-18-A2-S2 95B061371	IS-18-A2-03 95B061361	IS-18-C2-S2 95B061771	IS-18-C2-03 95B061761
10-30 Vdc	NPN NO	3 wires	order No.	IS-18-A3-S2 95B061311	IS-18-A3-03 95B061301	IS-18-C3-S2 95B061711	IS-18-C3-03 95B061701
10-30 Vdc	NPN NC	3 wires	order No.	IS-18-A4-S2 95B061331	IS-18-A4-03 95B061321	IS-18-C4-S2 95B061731	IS-18-C4-03 95B061721
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-18-A9-S2 95B063941	S-18-A9-03 95B064300	IS-18-C9-S2 95B064340	IS-18-C9-03 95B064310
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 Residual Ripple				10-30 Vdc (-15/10%) < 10%			

Nominal Voltage	10-30 Vac (-15/10%)	10-30 Vac (-15/10%)	10-30 Vac (-15/10%)	10-30 Vac (-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	> 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	



SHORT						
FL	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			
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 +60 °C)	(-25 +60 °C)	(-25 +60 °C)			
IP67	IP67	IP67	IP67			

Nickel-plated brass

95g

2 m

3 x 0,25 mm²

Nickel-plated brass

145g

Nickel-plated brass

95g

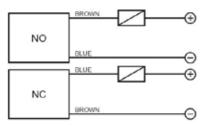
2 m

3 x 0,25 mm²

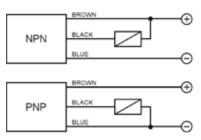
Nickel-plated brass

145g

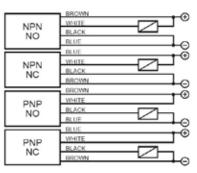
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

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

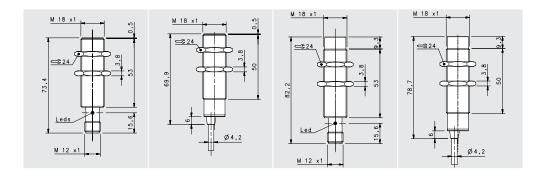
3 wires

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

4 wires (PNP/NPN, NO/NC)

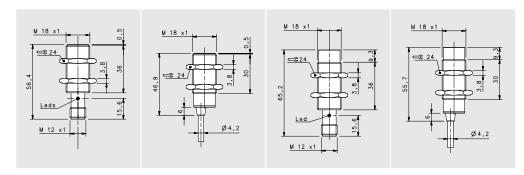
Sec. 1	Contacts numbers				
Output		2	3	- 4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+		NC	
PNP NC	-	+	+	NC	



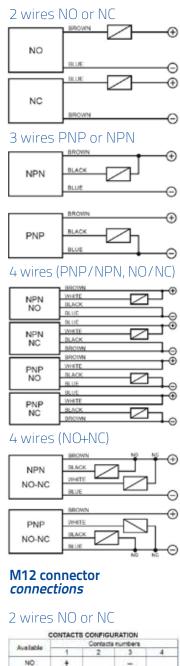


				STANDARD X2				
				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	NOMINAL SWITCHING DISTANCE			8 n	8 mm		mm	
10-30 Vdc	PNP/NPN	4 wires		IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03	
10-30 Vuc	NO-NC	4 WIIES	order No.	95B067310	95B067270	95B067330	95B067290	
10-30 Vdc	PNP 3 wires		IS-18-E1-S2		IS-18-F1-S2			
10-30 Vuc	NO	5 wires	order No.	95B067050		95B067040		
10-30 Vdc	PNP	3 wires						
10-50 Vuc	NC	5 WILES	order No.					
10-30 Vdc	NPN	3 wires						
10-50 Vuc	NO	5 WILES	order No.					
10-30 Vdc	NPN	3 Wires						
10-50 Vuc	NC		order No.					
10-30 Vdc	PNP	4 wires						
10-50 Vuc	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	4 wires						
10-50 Vuc	NO-NC	4 wires	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	
10-50 Vuc	NU-NC	2 wires	order No.	95B067320	95B067280	95B067340	95B067300	
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac7 Vuc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac7 Vuc	NC	2 wires	order No.					
20-250 Vac	NO	2/3wires						
20-250 Vac	NO	2/ 5 WIIes	order No.					
10-30 Vdc	Analog	3 wires						
	0-20 mA	5 WILES	order No.					
NAMUR amplifier	NAMUR	2 wires						
NAMOR ampliner	NAMUR	2 wiles	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	< 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		



SHORT X2						
FLI	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.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA			
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow			
400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-N			
< 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	Against polarity reversal inductive loads	Against polarity reversal inductive loads	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				



Average	1	2	3	4			
NO	+		-				
NC	-		+				

3 wires

C	ONTACT	S CONFIGU	RATION	
and the second second		Contacts	mambers	
Available	1	2	3	4
(NO or NC)	+		-	NOINC

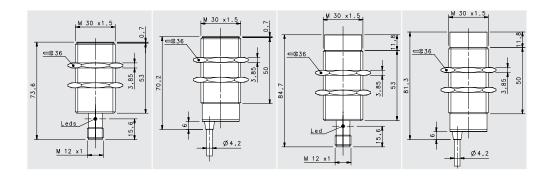
4 wires (PNP/NPN, NO/NC)

CONTACTS CONFIGURATION Output 2 3 4 NPN NO NO + -NPN NC NC 4 --NO PNP NO + ÷ PNPNC + NC +

4 wires (NO+NC)

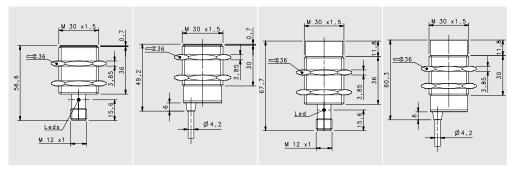
Academic .	Contacts numbers				
wassore.	. 8	2	3	4	
(NO + NC)	+	NC	-	NO	





				STANDARD				
				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	ING DISTANCE		10 mm	10 mm	15 mm	15 mm	
10-30 Vdc	PNP/NPN	4 wires		IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03	
10 50 140	NO-NC	4 101105	order No.	95B064490	95B064460	95B064510	95B064470	
10-30 Vdc	PNP	3 wires		IS-30-A1-S2	IS-30-A1-03	IS-30-C1-S2	IS-30-C1-03	
10-50 Vuc	NO	5 WILES	order No.	95B061431	95B061421	95B061831	95B061821	
10-30 Vdc	PNP	2		IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03	
10-30 Vac	NC	5 WIIES	3 wires	order No.	95B061451	95B061441	95B061851	95B061841
40.001/4-	NPN	3 wires		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
10.00141	NPN	3 wires	3 wires		IS-30-A4-S2	IS-30-A4-03	IS-30-C4-S2	IS-30-C4-03
10-30 Vdc	NC			order No.	95B061411	95B061401	95B061811	95B061801
10 2014	PNP	4 wires						
10-30 Vdc	NO-NC		order No.					
	NPN	4 wires						
10-30 Vdc	NO-NC		4 wires	order No.				
		-NC 2 wires		IS-30-A9-S2	IS-30-A9-03	IS-30-C9-S2	IS-30-C9-03	
10-30 Vdc	NO-NC		order No.	95B064570	95B064530	95B064590	95B064550	
20.25014 444		<u> </u>						
20-250 Vac/Vdc	NO	2 wires	order No.					
20.250.1//1/	NC	2						
20-250 Vac/Vdc	NC	C 2 wires	NC 2 wires	order No.				
20-250 Vac	NO	2/2						
20-250 Vac	NO	2/3 wires	order No.					
10. 20 \/d-	Analog	Duringe						
10-30 Vdc	0-20 mA	3 wires	order No.					
	NAMUD	Juviros						
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	200mA; 100 mA (2wires)			
Min. Output Current	> 1,6 mA (2wires)			
Residual Current	< 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 Frequency	300 Hz/250 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 +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 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		210 g		210 g
Weight - Connector Output	170 g		170 g	

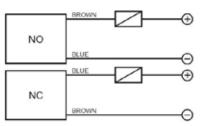


	SH	ORT	
FLL	JSH		LUSH
M12 conn	cable	M12 conn	cable
10 mm	10 mm	15 mm	15 mm
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03
95B062231	95B062221	95B062631	95B062621
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03
95B062251	95B062241	95B062651	95B062641
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03
95B062191	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 a		170 <i>a</i>	

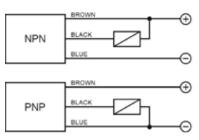
170 g

170 g

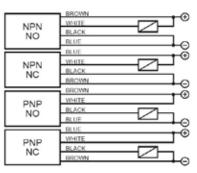
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

A callendar	Contacts numbers				
Available	1	2	3	- 4	
NO	+				
NC			+		

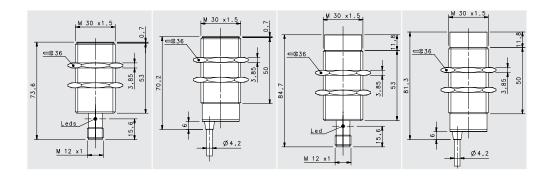
3 wires

Conceptor 1		Contects	numbers	
Availacite	-1	2	3	4
(NO or NO)	+	-	-	NO/NO

4 wires (PNP/NPN, NO/NC)

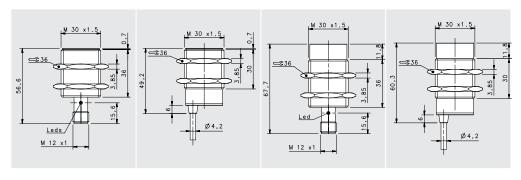
Sec. 1	Contacts numbers				
Output		2	3	- 4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+		NC	
PNP NC	-	+	+	NC	



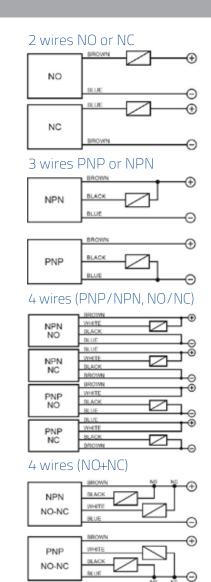


					STAND	ARD X2				
				FLU	SH	NON-F	LUSH			
				M12 conn	cable	M12 conn	cable			
NOMINAL SWITCH	IING DISTAN	Œ		15mm	15mm	20 mm	20 mm			
10-30 Vdc	PNP/NPN	4 wires		IS-30-E0-S2	IS-30-E0-03	IS-30-F0-S2	IS-30-F0-03			
10-30 Vac	NO-NC	4 wires	order No.	95B067390	95B067350	95B067410	95B067370			
10-30 Vdc	PNP	3 wires		IS-30-E1-S2						
10-50 Vuc	NO	5 WIIES	order No.	95B067060						
10-30 Vdc	PNP	3 wires								
10-30 Vuc	NC	5 WIES	order No.							
10-30 Vdc	NPN	3 wires								
10-50 440	NO		5 WIES	order No.						
10-30 Vdc	NPN	3 wires								
10 50 140	NC		5 Wiles	5 WIICS	5 WIIC5	order No.				
10-30 Vdc	PNP (L wire	PNP NO-NC 4 wires	4 wires	4 wires	4 wires					
10 50 142	NO-NC			order No.						
10-30 Vdc	NPN 4	4 wires								
10 50 142	NO-NC		order No.							
10-30 Vdc	NO-NC 2 v	2 wires		IS-30-E9-S2	IS-30-E9-03	IS-30-F9-S2	IS-30-F9-03			
10 50 142	No Ne	2 WIIES	2 WIES	2 WIIES	2 wires	order No.	95B067400	95B067360	95B067420	95B067380
20-250 Vac/Vdc	NO	2 wires								
20 230 142, 142	110	2 WIC5	order No.							
20-250 Vac/Vdc	NC	2 wires								
20 250 140, 140	NC .	2 WIICS	order No.							
20-250 Vac	NO	2/3 wires								
20 250 140	110	2/ 5 10/105	order No.							
10-30 Vdc	Analog	3 wires								
	0-20 mA	5 WIICS	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



	SHO	RT X2	
FLL	JSH		FLUSH
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 (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	



M12 connector connections

2 wires NO or NC

ACCESSION OF	Contacts numbers				
wantere.	1	2	5	- 4	
NO	+		- ÷		
NC	-		+		

3 wires

C	ONTACTS	CONFIGL	RATION			
Company of the	Contacts numbers					
Available	1	2	3	4		
(NO or NC)	+	1000		NOINC		

4 wires (PNP/NPN, NO/NC)

0.000	Contacts numbers					
Output	t	2	3	4		
NPN NO	+	NO	- 64			
NPN NC	-	NC	+	-		
PNP NO	+	+	-	NO		
PNP NC		+	+	NC		

4 wires (NO+NC)

distantia in the	Contacts numbers				
AV818016	. 8	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

Each Stainless Steel model is IP69K tested



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



IP69K



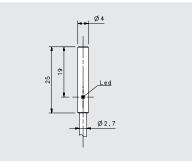
M12/18/30 models are IP69K certified



STAINLESS STEEL

STAINLESS STEEL M4





STANDARD FLUSH

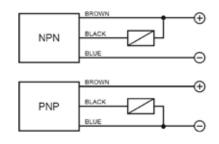
cable

NOMINAL SWITCHING DISTANCE

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.	IS-04-A1-03 95B061011
10-30 Vdc	PNP 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	2/3wires	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%)		
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

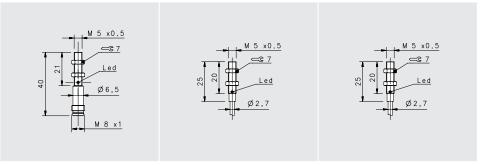


M8 3 pole

(• •) [*]			
\smile			
0017	ACTS CON	FIGURAT	1011
CONI	ACTO CON	FINUMAL	IUN .
CONI		tacts num	
Available		and a contract of the second	

STAINLESS STEEL M5



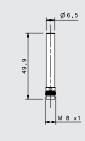


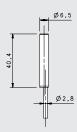
				STAN	IDARD	STANDARD X2
				FLL	JSH	FLUSH
				M8 conn	cable	cable
NOMINAL SWITCH	IING DISTAN	CE		0,8 mm	0,8 mm	1,5 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.	IS-05-A1-S1 95B061051	IS-05-A1-03 95B061041	
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	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.			

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 15%	< 15%	< 15%
Max. Output Current	100 mA	100 mA	100 mA
Min. Output Current			
Residual Current	< 0,01 mA	< 0,01 mA	< 0,01 mA
Voltage Drop	< 1,5V	< 1,5V	< 1,5V
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	2000 Hz	2000 Hz	2000 Hz
Start Up Delay			
Repeatability	< 1%	< 1%	
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		2 m (PUR)	2 m (PUR)
Cable Section		3x 0,15 mm²	3x 0,15 mm²
Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Weight - Cable Output		25g	25g
Weight - Connector Output	14g		

STAINLESS STEEL M6.5







SHORT STAINLESS STEEL

				FLUSH	
				M8 conn	cable
IOMINAL 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
10-30 Vdc	PNP	3 wires	order No.	IS-65-M2-S1 95B066120	IS-65-M2-03 95B064800
10-30 Vdc	NPN NO	3 wires	order No.	IS-65-M3-S1 95B066000	IS-65-M3-03 95B064680
10-30 Vdc	NPN NC	3 wires	order No.	IS-65-M4-S1 95B066040	IS-65-M4-03 95B064720
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.		

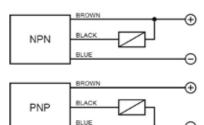
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	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	ІРб9К
Cable Length		
Cable Section		3x 0,14 mm²
Housing Material	Stainless-Steel	Stainless-Steel
Weight - Cable Output		80 g
Weight - Connector Output	40 g	



SHORT STAINLESS STEEL

NON FLUSH			
M8 conn	cable		
2 mm	2 mm		
IS-65-N1-S1	IS-65-N1-03		
95B066240	958064920		
IS-65-N2-S1	IS-65-N2-03		
95B066280	95B064960		
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	Against polarity reversal inductive loads		
inductive loads	(-25 +70 °C)		
(-25 +70 °C)			
	IP69K		
(-25 +70 °C)			
(-25 +70 °C) IP69K	IP69K		
(-25 +70 °C) IP69K 	IP69K		
(-25 +70 °C) IP69K 	IP69K 3x 0,14 mm²		





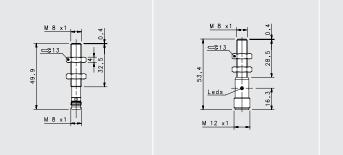
M8 3 pole

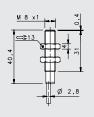


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STAINLESS STEEL M8



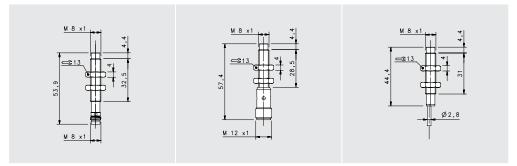




SHORT STAINLESS STEEL

				FLUSH		
			M8 conn	M12 conn	cable	
NOMINAL SWITCHING DISTANCE		1,5 mm	1,5 mm	1,5 mm		
PNP/NPN	4 wires	order No				
PNP	3 wires		IS-08-M1-S1	IS-08-M1-S2	IS-08-M1-03	
	5 11105	order No.			958066380	
PNP NC	3 wires	order No.	IS-08-M2-51 95B066900	15-08-M2-52 95B066630	IS-08-M2-03 95B066600	
NPN	3 wires	ordor No	IS-08-M3-S1	IS-08-M3-S2	IS-08-M3-03 95B066340	
NPN	3 wires		IS-08-M4-S1	IS-08-M4-S2	IS-08-M4-03	
	5 11105	order No.			958066360	
PNP NO-NC	4 wires	order No.				
	4 wires	and an Na				
NO-NC		order No.				
NO-NC	2 wires	order No.				
NO	2 wires					
		order No.				
NC	2 wires	order No.				
NO	2/3 wires					
		order No.				
Analog 0-20 mA	3 wires	order No.				
NAMUR	2 wires	order No.				
1						
			10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
	PNP/NPN NO-NC PNP NO NPN NO NPN NO-NC NO-NC NO-NC NO-NC NO-NC NO NO-NC	PNP/NPN NO-NC4 wiresPNP NO3 wiresPNP NC3 wiresNPN NO3 wiresNPN NO3 wiresNPN NO-NC4 wiresNPN NO-NC2 wiresNO-NC2 wiresNO2 wiresNO2 wiresNO2 wiresNO3 wiresNO3 wires	PNP/NPN NO-NC4 wiresorder No.PNP NO3 wiresorder No.PNP NO3 wiresorder No.PNP NC3 wiresorder No.NPN NO3 wiresorder No.NPN NO3 wiresorder No.NPN NO3 wiresorder No.NPN NO-NC4 wiresorder No.NPN NO-NC2 wiresorder No.NO-NC2 wiresorder No.NO2 wiresorder No.NC2 wiresorder No.NO2/3 wiresorder No.NO2/3 wiresorder No.NAMUE2 wiresorder No.	ING DISTANCE 1,5 mm PNP/NPN NO-NC 4 wires order No. order No. 0rder No. PNP NO 3 wires order No. 0rder No. 95B066870 PNP NC 3 wires order No. 0rder No. 95B066900 NPN NC 3 wires order No. 0rder No. 95B066820 NPN NC 3 wires order No. 0rder No. 15-08-M3-51 NPN NC 3 wires order No. 0rder No. 95B066820 NPN NC 4 wires order No. 0rder No. NPN NO-NC 4 wires order No. 0rder No. 0rder No. NO-NC 2 wires order No. 0rder No. 0rder No. NO 2 wires order No. 0rder No. 0rder No. NAMUR 3 wires 0rder No. 0rder No.	M8 conn M12 conn PNP (MP) NN ON-NC 4 wires order No. PNP (MO) 3 wires order No. 15-08-M1-51 15-08-M1-52 PND ND 3 wires order No. 958066870 958066600 PNP (MO) 3 wires order No. 958066900 958066600 PND ND 3 wires order No. 958066900 958066600 NPN ND 3 wires order No. 958066900 958066630 NPN ND 3 wires order No. 958066820 958066540 NPN NO-NC 3 wires order No. 958066840 958066570 NO-NC 3 wires order No. 958066840 958066570 NO-NC 4 wires order No. 958066840 958066570 NO-NC 2 wires order No.	

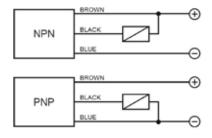
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (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	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

	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
95B066980	95B066710	95B066490
IS-08-N2-S1	IS-08-N2-S2	IS-08-N2-03
95B067010	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
95B066950	95B066680	95B066470
10 20 Vdc/ 15/10%)	10 20 V/dc / 15 /10%)	10 20 V/dc / 15 /10%)
10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%) < 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	ІРб9К
		3x 0,14 mm²
Stainless-Steel	Stainless-Steel	Stainless-Steel
		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



		A calle sta		
Available		Contacta	numbers	-
	1	2	3	4
(NO or NC)	+		_	NO/NC

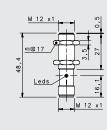
M8 3 pole

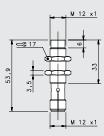
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1000000	Contacts numbers				
Available	1 HEOWN	3	4 BACK		
NPN/PNP	+	-	NONC		

STAINLESS STEEL M12

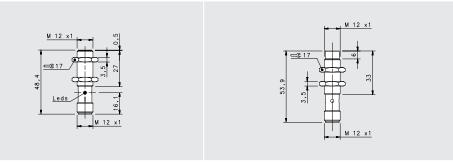






SHORT STAINLESS STEEL NON FLUSH FLUSH M12 conn M12 conn NOMINAL SWITCHING DISTANCE 2 mm 4 mm PNP/NPN --------10-30 Vdc 4 wires NO-NC order No. --------PNP IS-12-M1-S2 IS-12-N1-S2 10-30 Vdc 3 wires NO 95B060240 95B060280 order No. PNP IS-12-M2-S2 IS-12-N2-S2 10-30 Vdc 3 wires NC order No. 95B060250 95B060290 NPN IS-12-M3-S2 IS-12-N3-S2 10-30 Vdc 3 wires NO 95B060260 95B060300 order No. NPN IS-12-M4-S2 IS-12-N4-S2 10-30 Vdc 3 wires NC 95B060270 95B060310 order No. PNP ------10-30 Vdc 4 wires NO-NC order No. ------NPN -------10-30 Vdc 4 wires NO-NC -------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. --------Analog 0-20 mA ------10-30 Vdc 3 wires ---order No. ----------NAMUR NAMUR amplifier 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	60 g	60 g



SHORT STAIN	ILESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
4 mm	8 mm
IS-12-01-52	IS-12-P1-S2
958060000	95B060040
IS-12-02-52	IS-12-P2-S2
95B060010	95B060050
IS-12-03-52	IS-12-P3-S2
95B060020	958060060
IS-12-04-52	IS-12-P4-S2
958060030	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)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
Stainless-Steel	Stainless-Steel

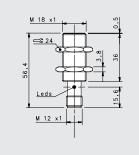
M12 3 pole

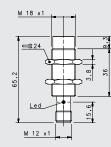


CONTACTS CONFIGURATION				
Available		Contacts	numbers	
	1	2	3	4
(NO or NC)	+		-	NO/NC

STAINLESS STEEL M18

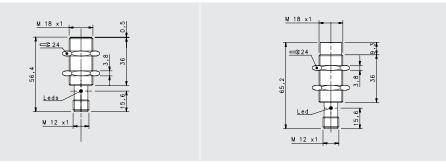






SHORT STAINLESS STEEL NON FLUSH FLUSH M12 conn M12 conn NOMINAL SWITCHING DISTANCE 5 mm 8 mm PNP/NPN -------10-30 Vdc 4 wires NO-NC order No. --------PNP IS-18-M1-S2 IS-18-N1-S2 10-30 Vdc 3 wires NO order No. 95B060320 95B060360 PNP IS-18-M2-S2 IS-18-N2-S2 10-30 Vdc 3 wires NC order No. 95B060330 95B060370 NPN IS-18-M3-S2 IS-18-N3-S2 10-30 Vdc 3 wires NO 95B060340 95B060380 order No. NPN IS-18-M4-S2 IS-18-N4-S2 10-30 Vdc 3 wires NC 95B060350 95B060390 order No. PNP ------10-30 Vdc 4 wires NO-NC order No. ------NPN -------10-30 Vdc 4 wires NO-NC -------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. --------Analog 0-20 mA ------10-30 Vdc 3 wires ---order No. ----------NAMUR NAMUR amplifier 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	ILESS 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-S2	IS-18-P2-S2
95B060090	95B060130
IS-18-03-S2	IS-18-P3-S2
958060100	95B060140
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
306	کرد

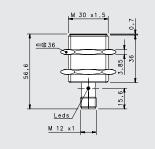
M12 3 pole

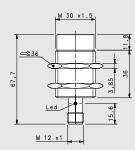


C	ONTACTS	CONFIGU	RATION	
and the second second		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NC

STAINLESS STEEL M30

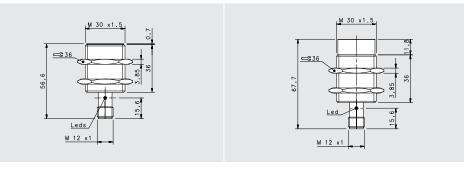






				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12	
NOMINAL SWITCH	IING DISTAN	CE		10 mm	15 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vac	NO-NC	4 WILES	order No.			
10-30 Vdc	PNP	3 wires		IS-30-M1-S2	IS-30-N1-S2	
10-30 Vac	NO	5 WIIES	order No.	95B060400	95B060440	
10-30 Vdc	PNP	3 wires		IS-30-M2-S2	IS-30-N2-S2	
10-30 vuc	NC	5 WILES	order No.	95B060410	95B060450	
10-30 Vdc	NPN	3 wires		IS-30-M3-S2	IS-30-N3-S2	
10-30 Vac	NO	3 wires	order No.	95B060420	95B060460	
10-30 Vdc	NPN	2		IS-30-M4-S2	IS-30-N4-S2	
10-30 Vac	NC	3 wires	order No.	95B060430	95B060470	
10-30 Vdc	PNP	(wires				
10-50 Vuc	NO-NC	4 wires	order No.			
10-30 Vdc	NPN	1				
10-30 Vac	NO-NC	4 wires	order No.			
10, 20, 1/4-		2				
10-30 Vdc	NO-NC	2 wires	order No.			
20.250.11 (114-	NO	2				
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	Zwiros				
20-250 Vac/ VOC	NC	2 wires	order No.			
20-250 Vac	NO	2/3wires				
20-200 Val	NU	2/ 5 WILES	order No.			
10-30 Vdc	Analog	3 wires				
10-30 Vul	0-20 mA	3 WILES	order No.			
NAMUD		Zwiros				
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	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-S2	IS-30-P1-S2
95B060160	95B060200
IS-30-02-52	IS-30-P2-S2
95B060170	95B060210
IS-30-03-S2	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 inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
170 g	170 g

M12 3 pole



C	ONTACTS	CONFIGU	RATION	
and the second second		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	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			

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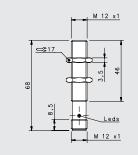


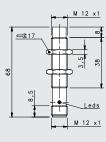
METAL FACE

ODATALOGIC 47

METAL FACE M12





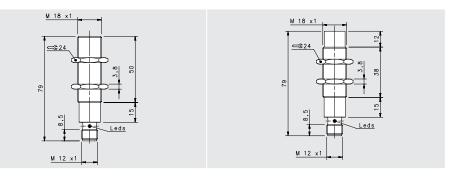


				METAL FACE			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCH	ING DISTAN	CE		2 mm	4 mm		
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	PNP NO	3 wires	order No.	IS-12-I1-S2 95B065340	IS-12-L1-S2 95B063871		
10-30 Vdc	PNP	3 wires					
10-30 Vuc	NC	5 WIIES	order No.				
10-30 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	order No.				
	NPN		order No.				
10-30 Vdc	NO-NC	4 wires	order No.				
40.001/4-		2					
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires					
20-250 Vac/ Vuc	NO	2 111125	order No.				
20-250 Vac/Vdc	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3 wires					
20 200 140		2/ 5 11/25	order No.				
10-30 Vdc	Analog	3 wires					
	0-20 mA		order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc	10-30 Vdc		
Residual Ripple				< 10%	< 10%		
Hysteresis				< 15%	< 15%		

Nominal Voltage	10-30 Vdc	10-30 Vac
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 0,01 mA	< 0,01 mA
Voltage Drop	< 1,5 V (I=100mA)	< 1,5 V (I=100mA)
Operation Led	Present	Present
Switching Frequency	2000 Hz	1000 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	30 g	30 g

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	4 wires				
10-50 Vuc	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires		IS-18-I1-52	IS-18-L1-S2	
10-30 Vac	NO	3 wires	order No.	95B065350	95B063881	
10-30 Vdc	PNP	2				
10-30 Vac	NC	3 wires	order No.			
40.201/4-	NPN	2				
10-30 Vdc	NO	3 wires	order No.			
40.201/4-	NPN	2				
10-30 Vdc	NC	3 wires	order No.			
40.001/1	PNP					
10-30 Vdc	NO-NC	4 wires	order No.			
	NPN NO-NC					
10-30 Vdc		4 wires	4 wires	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.			
	Analog					
10-30 Vdc	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				< 15%	< 15%	
Max. Output Curre	nt			200 mA	200 mA	
Min Output Curro				>16m/	>16m/	

nesidada nippie	10%	1 10/3
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	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

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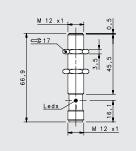


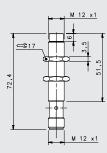
WELD FIELD IMMUNE

ODATALOGIC 51

WELD FIELD IMMUNE M12





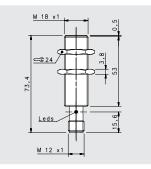


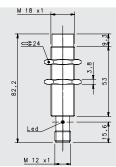
FIELD IMMUNE STAINLESS STEEL FLUSH NON FLUSH M12 conn M12 conn NOMINAL SWITCHING DISTANCE 4 mm 2 mm PNP/NPN -------10-30 Vdc 4 wires NO-NC order No. --------PNP IS-F12-S1-S2 IS-F12-T1-S2 10-30 Vdc 3 wires NO 95B065360 order No. 95B065370 PNP ------10-30 Vdc 3 wires NC order No. --------NPN -------10-30 Vdc 3 wires NO order No. ------NPN ---10-30 Vdc 3 wires NC -------order No. PNP --------10-30 Vdc 4 wires NO-NC order No. --------NPN ------10-30 Vdc 4 wires NO-NC -------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. --------Analog 0-20 mA ------10-30 Vdc 3 wires ---order No. ----------NAMUR NAMUR amplifier 2 wires order No. ------

Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
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







				FIELD IMMUNE	STAINLESS STEEL
				FLUSH	NON FLUSH
				M12 conn	M12 conn
NOMINAL SWITCH	IING 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-F18-S1-S2 95B065380	IS-F18-T1-S2 95B065390
10-30 Vdc	PNP NC	3 wires			
10-30 Vdc	NPN	3 wires	order No.		
10-30 Vdc	NO NPN	3 wires	order No.		
10-30 Vac	NC PNP	3 wires	order No.		
10-30 Vdc	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				10-30 Vdc	10-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15%	< 15%

Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
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	1000 Hz	500 Hz
Start Up Delay	< 0,2 ms	< 0,5 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	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

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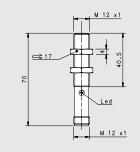


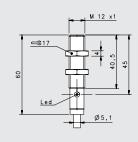


INDUCTIVE AC

INDUCTIVE AC M12







2 x 0,25 mm² Nickel-plated brass

145g

STANDARD VAC

				FLUSH		
				M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		2 mm	2 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	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires				
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC 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	2/3wires	order No.	 IS-12-A15-S2	 IS-12-A15-03	
10-30 Vdc	Analog	3 wires	order No.	958060690	958060680	
	0-20 mA	5 WIICS	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
lysteresis				< 10%	< 10%	
Max. Output Currer	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Curre	nt			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	
Switching Frequer	ncy			25 Hz	25 Hz	
start Up Delay				< 300 ms	< 300 ms	
Repeatability				5%	5%	
Short Circuit Prote	ection			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	
					1	

Nickel-plated brass

95g

Cable Section

Housing Material

Weight - Cable Output

Weight - Connector Output

INDUCTIVE AC M18



Protection Degree

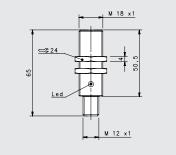
Housing Material

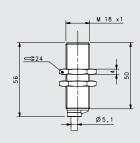
Weight - Cable Output

Weight - Connector Output

Cable Length

Cable Section





STANDARD VAC

				FLUSH		
				M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		5 mm	5 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
	PNP		order No.			
10-30 Vdc	NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
	PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NPN	4 wires				
	NO-NC	4 WIICS	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.			
20.2501/	NO	2/2		IS-18-A15-S2	IS-18-A15-03	
20-250 Vac	NO	2/3 wires	order No.	95B060780	95B060770	
10-30 Vdc	Analog	3 wires				
10-50 Vuc	0-20 mA	5 WIIES	order No.			
NAMUR amplifier	NAMUR	2 wires				
	NAMON	2 WIES	order No.			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Currer	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Curre				20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
Voltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Frequer	ncv			25 Hz	25 Hz	
Start Up Delay	,			< 300 ms	< 300 ms	
Repeatability				5%	5%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	I			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	

IP67

Nickel-plated brass

95g

IP67

2 m

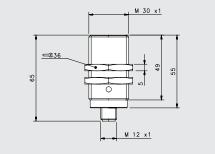
2 x 0,25 mm²

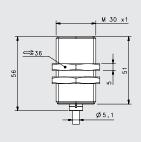
Nickel-plated brass

145g

INDUCTIVE AC M30







2 x 0,25 mm²

Nickel-plated brass

. 145g

STANDARD VAC

				FLUSH		
				M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		10 mm	10 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				
10-30 Vdc	NPN	3 wires	order No.			
10-30 Vdc	NO NPN	3 wires	order No.			
	NC		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.			
			order No.	 IS-30-A15-S2	 IS-30-A15-03	
20-250 Vac	NO	2/3 wires	order No.	95B060820	95B060810	
0-30 Vdc	Analog 0-20 mA	3 wires	order No.			
			order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
lysteresis				< 10%	< 10%	
Max. Output Currer	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Curre	nt			20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
/oltage Drop				< 4 V (I=100mA)	< 4 V (l=100mA)	
Operation Led				Yellow	Yellow	
Switching Frequer	ncy			25 Hz	25 Hz	
Start Up Delay				< 300 ms	< 300 ms	
Repeatability				5%	5%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	I			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 Length					2 m^2	

Nickel-plated brass

---95g

Cable Section

Housing Material

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

HILLS SPECIAL STOCK

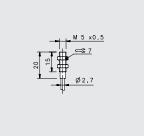


M12/18/30 FLUSH models are ATEX certified II 3G EX nA II T6 II 3D EX tD A22 IP67 T85°C



ODATALOGIC 61



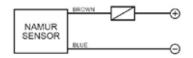


NAMUR FLUSH cable

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	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.	
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.	IS-05-A20-03 95B065410

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

2 wires NAMUR



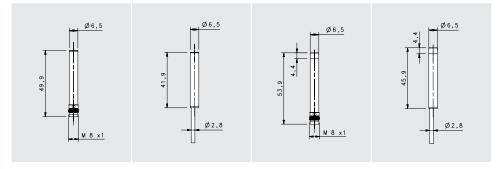
M8 2 wires NAMUR

·(••	•)•	trip	View of le male nnector
CONT	CTS CON	FIGURATI	ON
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NAMUR M6.5



Weight - Connector Output

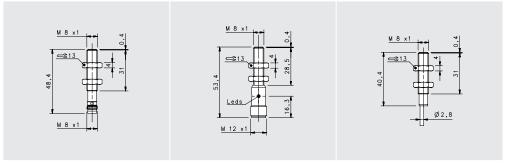


					NA	MUR	
				FLL	JSH	NON	LUSH
				M8 conn	cable	M8 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		1 mm	1 mm	2 mm	2 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 Vdc	NC NPN	3 wires	order No.				
	NO NPN		order No.				
10-30 Vdc	NC	3 wires	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					
20.250.1//1/4-	NG	2	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.	IS-65-A20-S1 95B066310	IS-65-A20-03 95B066290	IS-65-C20-S1 95B066320	IS-65-C20-03 95B066300
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Currer Min. Output Currer				< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)
Residual Current							
Voltage Drop							
Operation Led							
Switching Frequen	су			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				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
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 - Connector				/•0 g	556	/ O g	00 6

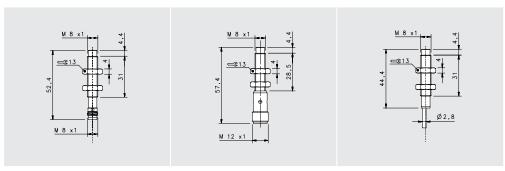
40 g

40 g



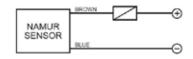


					NAMUR	
					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		1 mm	1 mm	1 mm
10-30 Vdc	PNP/NPN	4 wires				
10 50 140	NO-NC		order No.			
10-30 Vdc	PNP	3 wires				
	NO		order No.			
10-30 Vdc	PNP NC	3 wires	andan Na			
			order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
	NPN		order No.			
10-30 Vdc	NC	3 wires	order No.			
	PNP					
10-30 Vdc	NO-NC	4 wires	order No.			
40.001/1	NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10. 20.1/4-		2				
10-30 Vdc	NO-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				
		2 111 05	order No.			
20-250 Vac	NO	2/3 wires				
			order No.			
10-30 Vdc	Analog 0-20 mA	3 wires				
	0-20 MA		order No.	 IS-08-A20-S1	 IS-08-A20-S2	 S-08-A20-03
NAMUR amplifier	NAMUR	2 wires	order No.	958066780	958066760	95B066740
			order No.	55000700	335000700	555000740
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Currei	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
Residual Current						
Voltage Drop						
Operation Led						
Switching Frequer	псу			2000 Hz	2000 Hz	2000 Hz
Start Up Delay						
Repeatability				< 3%	< 3%	< 3%
Short Circuit Prote	ection			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 +60 °C)
Protection Degree				IP67	IP67	IP67
Cable Length						2 m
Cable Section						2x 0,25 mm²
Housing Material Weight - Cable Out	put			Nickel-plated brass	Nickel-plated brass	Nickel-plated brass 80 g
Weight - Connecto				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%	< 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 +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	

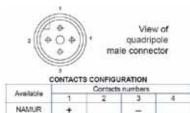
2 wires NAMUR



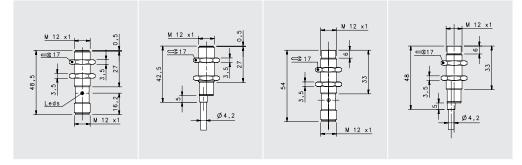
M8 2 wires NAMUR



M12 2 wires NAMUR







				NAMUR				
				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	4mm	4mm	
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC	4 WIIES	order No.					
10-30 Vdc	PNP	3 wires						
	NO		order No.					
10-30 Vdc	PNP NC	3 wires	3 wires	order No.				
	NPN		order No.					
10-30 Vdc	NO	3 wires	order No.					
	NPN		oraci no.					
10-30 Vdc	NC	3 wires	order No.					
	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
10 20 1/4-	NPN	1						
10-30 Vdc	NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires						
10-50 Vul	NO-NC	2 WIIES	order No.					
20-250 Vac/Vdc	NO	2 wires						
	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	3 wires						
	0-20 mA		order No.					
NAMUR amplifier	NAMUR	2 wires	andan Na	IS-12-A20-S2 95B064180	IS-12-A20-03	IS-12-C20-S2 95B064190	IS-12-C20-03 95B064170	
			order No.	950004100	95B064160	950004190	956064170	
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Curre	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
/oltage Drop								
Operation Led								
Switching Freque	псу			2000 Hz	2000 Hz	2000 Hz	2000 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	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
able Length					2 m		2 m	
Cable Section					2 x 0,25 mm^2		2 x 0,25 mm^2	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Woight - Cable Out	nut				110 g		110 g	

110 g

60 g

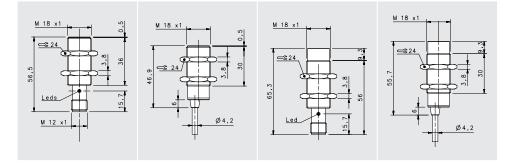
60 g

110 g

Weight - Cable Output Weight - Connector Output



Weight - Cable Output Weight - Connector Output



				NAMUR			
				FLUSH		NON FLUSH	
				M12 conn	cable	M12 conn	cable
IOMINAL SWITCH	ING DISTAN	CE		5mm	5mm	8mm	8mm
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					
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	3 wires	order No.				
NAMUR amplifier	0-20 mA	2 wires	order No.	 IS-18-A20-S2	 IS-18-A20-03	 IS-18-C20-S2	 IS-18-C20-03
		ZWIICS	order No.	95B064380	95B064360	95B064390	95B064370
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
Residual Current							
Voltage Drop							
Operation Led							
Switching Frequency		1000 Hz	1000 Hz	1000 Hz	1000 Hz		
Start Up Delay							
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Protection Electric Protection				Present (self-resetting) Against polarity reversal inductive loads	Present (self-resetting) Against polarity reversal inductive loads	Present (self-resetting) Against polarity reversal inductive loads	Present (self-resetting Against polarity reversa inductive loads
Temperature Limit							
Protection Degree				(-25 +60 °C) IP67	(-25 +60 °C) IP67	(-25 +60 °C) IP67	(-25 +60 °C) IP67
Cable Length				1967	2 m	IP67	2 m
Cable Section					2 x 0,25 mm ²		2 m 2 x 0,25 mm²
				Nickel-plated brass	Nickel-plated brass	 Nickel-plated brass	Nickel-plated brass
Housing Material				INICKEI-PIALEU DI ASS	Nickel-plated blass	Nicker-plated blass	NICKEI-PIALEU DI ASS

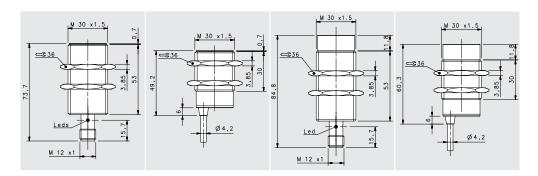
145g

95g

95g

145g





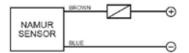
170 g

				NAMUR				
				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCHING DISTANCE				10mm	10mm	15mm	15mm	
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC	4 111105	order No.					
10-30 Vdc	PNP NO	3 wires	andar Na					
			order No.					
10-30 Vdc	PNP NC	3 wires	order No.					
	NPN		order No.					
10-30 Vdc	NO	3 wires	order No.					
10-30 Vdc	NPN	Quuinee						
10-30 Vac	NC	3 wires	order No.					
10-30 Vdc	PNP	4 wires						
	NO-NC		order No.					
10-30 Vdc	NPN NO-NC	4 wires						
	NU-NC		order No.					
10-30 Vdc	NO-NC	2 wires	order No.					
			order No.					
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
0.250.1/24	NO	2/3 wires						
20-250 Vac	NO		order No.					
10-30 Vdc	Analog							
10 50 142	0-20 mA		5 WIIes	order No.				
NAMUR amplifier	NAMUR	/UR 2 wires		IS-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03	
F			order No.	95B064630	95B064610	95B064640	95B064620	
Iominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
lysteresis				< 10%	< 10%	< 10%	< 10%	
, Max. Output Currer	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
/in. Output Currei	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
/oltage Drop								
Operation Led								
Switching Frequen	су			500 Hz	500 Hz	500 Hz	500 Hz	
Start Up Delay								
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	
emperature 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 Output					210 g		210 g	

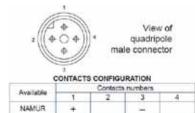
170 g

Weight - Connector Output

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

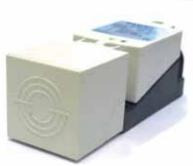
 Average red. Fact.
 0,45
 0,85
 0,4
 0,5

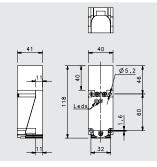
III IS SHOW MALLY WAS ALLED



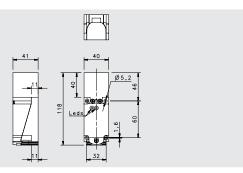


SOUARE 40X40





				40X40			
				FLUSH	NON FLUSH		
				Terminal Block	Terminal Block		
NOMINAL SWITCHING DISTANCE				15 mm	30mm		
10-30 Vdc PNP/NPN NO-NC	PNP/NPN	, .					
		4 wires	order No.				
40.2014-	PNP Duri						
10-30 Vdc	NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 Vuc	NC		order No.				
10-30 Vdc	NPN	3 wires					
	NO	J WILES	order No.				
10-30 Vdc	NPN	3 wires					
	NC	5 WILES	order No.				
10-30 Vdc	PNP	4 wires		IS-40-W5-S3	IS-40-Y5-S3		
	NO-NC	4 WIICS	order No.	95B065240	95B065280		
10-30 Vdc	NPN	4 wires		IS-40-W6-S3	IS-40-Y6-S3		
	NO-NC		order No.	95B065230	95B065270		
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	3 wires					
	0-20 mA		order No.				
NAMUR amplifier	NAMUR	2 wires					
			order No.				
Nominal Voltage				10-30 Vdc	10-30 Vdc		
Residual Ripple				< 10%	< 10%		
Hysteresis				< 15% (Sr)	< 15% (Sr)		
Max. Output Curre	nt			200mA	200mA		
Min. Output Curre							
Residual Current	iii.			< 0,01 mA	< 0,01 mA		
Voltage Drop				< 1,5V	< 1,5V		
Operation Led				YES	YES		
Switching Frequer	าดง			100 Hz	100 Hz		
Start Up Delay	1						
Repeatability				< 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		
Cable Length							
Cable Section							
Housing Material				PBT (RESIN)	PBT (RESIN)		
Weight - Cable Output							
Weight - Connector Output				262g	262g		

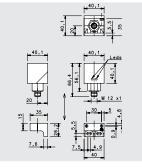


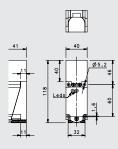
40X40 VAC/VDC

FLUSH NON FLUSH Terminal Block Terminal Block 15 mm 30mm	40X40 \	40X40 VAC/VDC																																																																					
15 mm 30mm <																																																																							
<	Terminal Block	Terminal Block																																																																					
	15 mm	30mm																																																																					
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5-40-W7-53 JS-60-Y8-53 95B065250 95B06530 95B065260 95B06530 </td <td></td> <td></td>																																																																							
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S-40-W7-53 IS-40-Y7-53 958065250 95806520 IS-40-W8-53 IS-40-Y7-53 958065260 95806520 958065260 95806520																																																																							
S-40-W7-53 IS-40-Y7-53 95B065250 95B065290 IS-40-W8-53 IS-40-Y7-53 95B065260 95B065300 <10%																																																																							
S-40-W7-53 IS-40-Y7-53 958065250 958065290 IS-40-W8-53 IS-40-Y8-53 958065260 958065300 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz <10%																																																																							
S-40-W7-53 IS-40-Y7-53 95B065250 95B06520 IS-40-W8-53 IS-40-Y8-53 95B065260 95B065300 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz < 10% (Sr)																																																																							
S-40-W7-S3 IS-40-Y7-S3 95B065250 95B065290 IS-40-W8-S3 IS-40-Y8-S3 95B065260 95B065300 -																																																																							
95B065250 95B065290 IS-40-W8-53 IS-40-Y8-53 95B065260 95B065300 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz <<10%																																																																							
IS-40-W8-53 IS-40-Y8-53 958065260 958065300 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz <<10%																																																																							
95B065260 95B065300 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz 200rA 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz 200mA 200mA 200mA 200mA 200mA 200mA < <td>< 10% (sr)</td> YES YES YES YES 25 Hz AC; 40 Hz DC 25 Hz AC; 40 Hz DC 10% (Sr) P	< 10% (sr)																																																																						
<2,5mA																																																																							
20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz <																																																																							
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20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz <10%																																																																							
20-250 VAC/Vdc, 50-60 Hz < 10%			20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz < 10%			20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz < 10%			< 10%			< 10%			< 15% (Sr)			200mA 200mA < 2,5mA			< 2,5mA			< 2,5mA			< 10Vac; < 8Vdc			YES YES 25 Hz AC; 40 Hz DC 25 Hz AC; 40 Hz DC < 1.0% (Sr)			25 Hz AC; 40 Hz DC 25 Hz AC; 40 Hz DC < 1.0% (5r)			Image: constraint of the section of			Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)IP67 <t< td=""><td></td><td></td></t<>			Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)IP67 <t< td=""><td>< 1.0% (Sr)</td><td>< 1.0% (Sr)</td></t<>	< 1.0% (Sr)	< 1.0% (Sr)	Against polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)IP67 <td< td=""><td></td><td></td></td<>			(-25 +70 °C) (-25 +70 °C) IP67 IP67 IP67 PBT (RESIN) PBT (RESIN)	Against polarity reversal	Against polarity reversal	IP67 IP67 PBT (RESIN) PBT (RESIN)			 PBT (RESIN) PBT (RESIN)			PBT (RESIN) PBT (RESIN)			PBT (RESIN) PBT (RESIN)					PBT (RESIN)				262g 262g	262g	262g
20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz < 10%																																																																							
20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz < 10%																																																																							
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Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)IP67 <t< td=""><td>< 1.0% (Sr)</td><td>< 1.0% (Sr)</td></t<>	< 1.0% (Sr)	< 1.0% (Sr)																																																																					
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(-25 +70 °C) (-25 +70 °C) IP67 IP67 IP67 PBT (RESIN) PBT (RESIN)	Against polarity reversal	Against polarity reversal																																																																					
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		PBT (RESIN)																																																																					
262g 262g	262g	262g																																																																					

SOUARE 40X40







Present (self-resetting)

Against polarity reversal inductive loads

(-25 ... +70 °C)

IP67 ----

PBT (RESIN)

242g

	-			SHORT	ANALOG OUTPUT
				FLUSH	NON FLUSH
				M12 conn.	Terminal Block
NOMINAL SWITCH	ING DISTANC	E		15mm	7-20mm
	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires			
10-50 Vuc	NO	5 WILES	order No.		
10-30 Vdc	PNP	3 wires			
10 50 140	NC	5 111 25	order No.		
10-30 Vdc	NPN	3 wires			
	NO		order No.		
10-30 Vdc	NPN NC	3 wires			
			order No.		
10-30 Vdc	PNP NO-NC	4 wires	and an Na	IS-40-X5-S2	
			order No.	95B065320	
10-30 Vdc	NPN NO-NC	4 wires	and an Na	IS-40-X6-S2	
	NO-NC		order No.	95B065310	
10-30 Vdc	NO-NC	2 wires	ender Ne		
			order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
			order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires	order No.		
	Analog	<u> </u>			IS-40-C11-S3
10-30 Vdc	0-20 mA	3 wires	order No.		95B065330
		- ·			
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				10-30 Vdc	18-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15% (Sr)	< 10% (Sr)
Max. Output Current				200mA	0-20mA/200 Ω Max.
Min. Output Current					
Residual Current				< 0,01mA	
Voltage Drop				< 1,5V	
Operation Led				YES	
Switching Frequer	псу			100 Hz	100 Hz
Start Up Delay					
Repeatability				< 1.0% (Sr)	0,02 mm

Present (self-resetting)

Against polarity reversal inductive loads

(-25...+70 °C)

IP67

PBT (RESIN)

170 g

Short Circuit Protection

Electric Protection Temperature Limit

Protection Degree

Weight - Cable Output

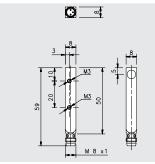
Weight - Connector Output

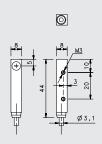
Cable Length

Cable Section Housing Material

SOUARE 8X8







				SH	ORT
					USH
				M8 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		1,5mm	1,5mm
10-30 Vdc	PNP/NPN NO-NC	4 wires			
			order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-88-Q1-S1 95B060840	IS-88-Q1-03 95B060830
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN	3 wires			
	NO	5 11105	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			
20-230 Vac/ Vac	NC .	2 001165	order No.		
20-250 Vac	NO	2/3 wires			
20 250 Vac	NO	2/ 5 10105	order No.		
10-30 Vdc	Analog	3 wires			
	0-20 mA		order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				10-30 Vdc	10-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 10% (Sr)	< 10% (Sr)
Max. Output Current				200mA	200mA
Min. Output Curre	nt				

Hysteresis < 10% (Sr)	Residual Ripple	< 10%	< 10%
Min. Output CurrentResidual CurrentVoltage Drop<1,2V	Hysteresis	< 10% (Sr)	< 10% (Sr)
Residual CurrentVoltage Drop<	Max. Output Current	200mA	200mA
Voltage Drop< < 1,2V< < 1,2VOperation LedYellowYellowSwitching Frequency500 Hz500 HzStart Up Delay75 ms75 msRepeatability<	Min. Output Current		
Operation LedYellowYellowSwitching Frequency500 Hz500 HzStart Up Delay75 ms75 msRepeatability<3%	Residual Current		
Switching Frequency500 Hz500 HzStart Up Delay75 ms75 msRepeatability< 3%	Voltage Drop	< 1,2V	< 1,2V
Start Up Delay75 msRepeatability< 3%	Operation Led	Yellow	Yellow
Repeatability< 3%< 3%Short Circuit ProtectionPresent (self-resetting)Present (self-resetting)Electric ProtectionAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsTemperature Limit(-25 +70 °C)(-25 +70 °C)Protection DegreeIP67IP67Cable Length2 mCable Section3x0,14mm²Housing Materialnickel-plated brassnickel-plated brassWeight - Cable Output80 g	Switching Frequency	500 Hz	500 Hz
Short Circuit ProtectionPresent (self-resetting)Present (self-resetting)Electric ProtectionAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsTemperature Limit(-25 +70 °C)(-25 +70 °C)Protection DegreeIP67IP67Cable Length2 mCable Section3x0,14mm²Housing Materialinckel-plated brassinckel-plated brassWeight - Cable Output80 g	Start Up Delay	75 ms	75 ms
Electric ProtectionAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsTemperature Limit(-25 +70 °C)(-25 +70 °C)Protection DegreeIP67IP67Cable Length2 mCable Section3x0,14mm²Housing Materialnickel-plated brassnickel-plated brassWeight - Cable Output80 g	Repeatability	< 3%	< 3%
Electric Protectioninductive loadsinductive loadsTemperature Limit(-25 +70 °C)(-25 +70 °C)Protection DegreeIP67IP67Cable Length2 mCable Section3x0,14mm²Housing Materialnickel-plated brassnickel-plated brassWeight - Cable Output80 g	Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Protection DegreeIP67IP67Cable Length2 mCable Section3x0,14mm²Housing Materialnickel-plated brassnickel-plated brassWeight - Cable Output80 g	Electric Protection		
Cable Length 2 m Cable Section 3x0,14mm² Housing Material nickel-plated brass nickel-plated brass Weight - Cable Output 80 g	Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Cable Section3x0,14mm²Housing Materialnickel-plated brassnickel-plated brassWeight - Cable Output80 g	Protection Degree	IP67	IP67
Housing Material nickel-plated brass nickel-plated brass Weight - Cable Output 80 g	Cable Length		2 m
Weight - Cable Output 80 g	Cable Section		3x0,14mm²
	Housing Material	nickel-plated brass	nickel-plated brass
Weight - Connector Output 40 g	Weight - Cable Output		80 g
	Weight - Connector Output	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.

IIIIII S Sterahows and

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



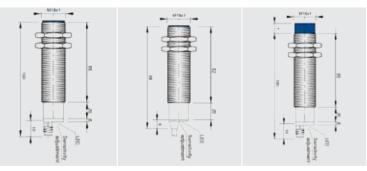


CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

ODATALOGIC 77

CAPACITIVE BASIC M18





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					STAN	DARD			
				FLU			NON FLUSH		
				M8 conn	cable	M8 conn	cable		
IOMINAL SWITCH	ING DISTAN	Œ		15 mm	15 mm	110 mm	110 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.	CS08K2 958901040	CS08 958901020	CS14K2 958901270	CS14 958901120		
0-30 Vdc	NPN NO-NC	4 wires	order No.	CS07K2 958901000	CS07 958901160	CS13K2 958901250	CS13 958901100		
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	order No.						
20-250 Vac	NO	2/3wires	order No.						
0-30 Vdc	Analog 0-20 mA	3 wires	order No.						
IAMUR amplifier	NAMUR	2 wires							
			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)			
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 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









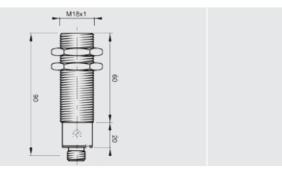


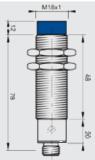
				STANDARD				
				FLU	ISH	NON FLUSH		
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITCHING DISTANCE				115 mm	115 mm	125 mm	125 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.					
10-30 Vdc	PNP NO	3 wires	order No.					
10-30 Vdc	PNP NC	3 wires	order No.					
10-30 Vdc	NPN NO	3 wires	order No.					
10-30 Vdc	NPN NC	3 wires	order No.					
10-30 Vdc	PNP NO-NC	4 wires	order No.	CS10K2 958901080	CS10 958901060	CS16K2 958901330	CS16 958901140	
10-30 Vdc	NPN NO-NC	4 wires	order No.	CS09K2 958901230	CS09 958901180	CS15K2 958901300	CS15 958901200	
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	2/3wires	order No.					
10-30 Vdc	Analog 0-20 mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires	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 (l=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 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







Plastic (PBT)

80 g

				STAN	IDARD
				FLUSH	NON FLUSH
				M12 conn	M12 conn
IOMINAL SWITCHING DISTANCE			28 mm	215 mm	
	PNP/NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
0-30 Vdc	PNP	3 wires			
	NO		order No.		
0-30 Vdc	PNP NC	3 wires	order No.		
	NPN		order No.		
0-30 Vdc	NO	3 wires	order No.		
	NPN				
0-30 Vdc	NC	3 wires	order No.		
0.00.14-	PNP				
0-30 Vdc	NO-NC	4 wires	order No.		
0-30 Vdc	NPN	4 wires			
0-30 Vac	NO-NC	4 wires	order No.		
0-30 Vdc	NO-NC	2 wires			
	NO-NC	2 111125	order No.		
0-250 Vac/Vdc	NO	2 wires		CSP40K4	CSP41K4
5 250 Vac/ Vac	NO	2 101105	order No.	958901380	958901390
0-250 Vac/Vdc	Vdc NC 2 wires				
	-		order No.		
0-250 Vac	NO	2/3 wires			
			order No.		
0-30 Vdc	Analog 0-20 mA	3 wires	and an Na		
	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%
lysteresis				< 15%	< 15%
lax. Output Currer	nt			300 mA	300 mA
lin. Output Curre				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
Switching Frequency			25 Hz	25 Hz	
tart Up Delay	,				
epeatability				< 5%	< 5%
Short Circuit Protection				Present(self-resetting)	Present(self-resetting)
lectric Protection	Against polarity reversal		-	Against polarity reversal inductive loads	
emperature Limit				- 25 +70 C	- 25 +70 C
rotection Degree				IP67	IP67
able Length					
Table Costion					

Plastic (PBT)

80 g

Cable Section Housing Material

Weight - Cable Output

Weight - Connector Output

CAPACITIVE A.C. M30





			_	STANDARD		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
OMINAL SWITCHI	ING DISTANO	E		220 mm	230 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.	CSP50K4 958901400	CSP51K4 958901410	
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	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	200 g	200 g

CAPACITIVE MULTIVOLTAGE M30



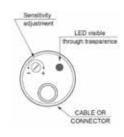




				STANDARD (TIMER TRIMMER)			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCH	NOMINAL SWITCHING DISTANCE			20 mm	30 mm		
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC	4 WIES	order No.				
10-30 Vdc	PNP NO	3 wires	order No.				
	PNP						
10-30 Vdc	NC	3 wires	order No.				
10-30 Vdc	NPN	3 wires					
10-30 Vac	NO	3 wires	order No.				
10-30 Vdc	NPN	3 wires					
10-50 Vac	NC	5 WIES	order No.				
10-30 Vdc	PNP	4 wires					
10 50 142	NO-NC	4 WIICS	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					
			order No.				
18230 VAC/DC	relay SPDT	6 wires		C531	CS32		
			order No.	958901150	958901220		
18230 Vac/dc	relay SPDT	6 wires		CS31TD5	CS32TD5		
	(delay ON)		order No.	958901350	958901360		
18230 VAC/DC	relay SPDT	6 wires		CS31TE5	CS32TE5		
	(delay OFF)		order No.	958901210	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				<10%	<10%		
Max. Output Curre	nt			3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)		

Nesidual Nipple	< 10 ¹ / ₈	<10%
Hysteresis	<10%	<10%
Max. Output Current	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)
Absorption	2,5 VA	2,5 VA
Residual Current		
Setting	sensitivity and time adj. trimmer	sensitivity and time adj. trimmer
Operation Led	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz
Start Up Delay	<300 ms	<300 ms
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	IP65	IP65
Cable Length	2 m	2 m
Cable Section	6x0,30 mm²	6x0,30 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output	250 g	250 g
Weight - Connector Output		
Housing Material Weight - Cable Output	Nickel-plated brass 250 g	Nickel-plated brass 250 g

CAPACITIVE SETTINGS & CONNECTIONS



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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.

Timer adjustment

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.

M8 4-pole NO-NC models

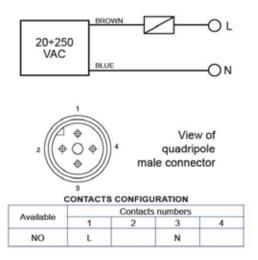


SENSITIVITY ADJUS

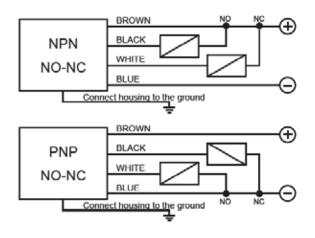
CONTACTS CONFIGURATION

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

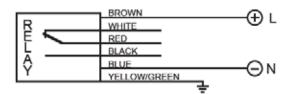
2 wires Vac models



4 wires NO-NC Vdc model



6 wires Mulivoltage models



CABLES, CONNECTORS & ACCESSORIES

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

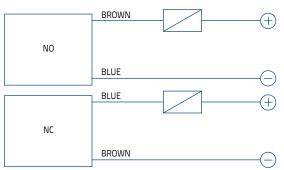


CABLES, CONNECTORS & ACCESSORIES

CABLES, CONNECTORS & ACCESSORIES

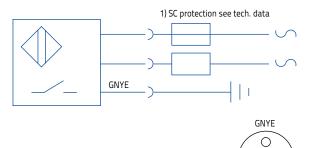
2 WIRES SENSORS

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



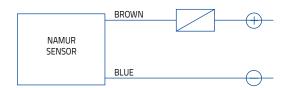
Double key connector for inductive AC sensors \cap BU

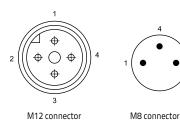
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3 M12 connector

4

CONTACTS CONFIGURATION

2

3

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+

4

Contacts numbers

1

+

_

2 Φ

Available

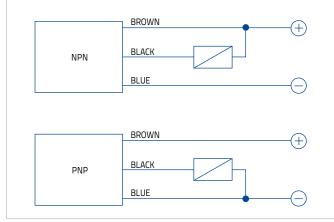
NO

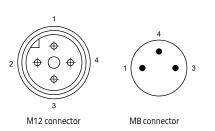
NC

CONTACTS CONFIGURATION						
Available	Contacts num	bers				
Available	1	2	3	4		
NAMUR	+		-			

3 WIRES SENSORS

3 WIRES PNP or NPN, NO or NC

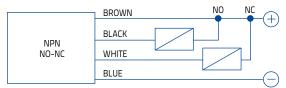


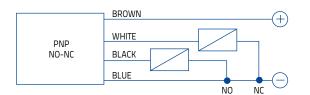


CONTACTS CONFIGURATION						
Available	Contacts	numbers				
Available	1	2	3	4		
(NO or NC)	+		-	NO/NC		

4 WIRES SENSORS

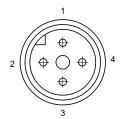
4 wires (NO+NC)





4 wires (PNP/NPN, NO/NC)

	BROWN	
NPN	WHITE	
NO	BLACK	,
	BLUE	
	BLUE	
NPN	WHITE	
NC	BLACK	
	BROWN	
	BROWN	
PNP	WHITE	
NO	BLACK	
	BLUE	
	BLUE	(+
PNP	WHITE	
NC	BLACK	,
	BROWN	



CONTACTS CONFIGURATION						
Output	Contacts num	oers				
Output	1	2	3	4		
NO + NC	+	NC	-	NO		

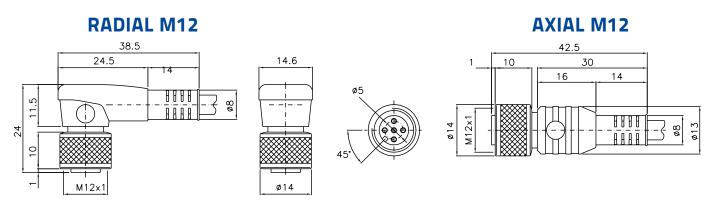
CONTACTS CONFIGURATION						
Output	Contacts num	bers				
Output	1	2	3	4		
NPN NO	+	NO	-	-		
NPN NC	-	NC	+	-		
PNP NO	+	+	-	NO		
PNP NC	-	+	+	NC		

CABLES, CONNECTORS & ACCESSORIES

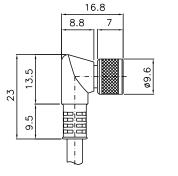
CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.
	_		//8 3 m	CS-B1-01-G-03	95A251490
NO Generation		Grey, P.V.C.	5 m	CS-B1-01-G-05	95A251510
M8 Connector (Axial)	3		2 m	CS-B1-01-R-02	95A251580
(P.U.R.	5 m	CS-B1-01-R-02	95A251580
			3 m	CS-B1-01-R-05	95A251500
	3	Grey, P.V.C.	5 m	CS-B2-01-G-05	95A251500 95A251520
M8 Connector (Radial 90°)					
(nadia 50)		P.U.R.	2 m	CS-B2-01-R-02	95A251590
			5 m	CS-B2-01-R-05	95A251610
			3 m	CS-B1-02-G-03	95A251420
		Grey, P.V.C.	5 m	CS-B1-02-G-05	95A251430
			7 m	CS-B1-02-G-07	95A251440
M8 Connector	4		10 m	CS-B1-02-G-10	95A251480
(Axial)		P.U.R.	2 m	CS-B1-02-R-02	95A251620
			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
		Grey, PVC	5 m	CS-B2-02-G-05	95A251460
			7 m	CS-B2-02-G-07	95A251470
M8 Connector	4		10 m	CS-B2-02-G-10	95A251530
(Radial 90°)		P.U.R.	2 m	CS-B2-02-R-02	95A251630
		1.0.1%	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	12		
	3	Grey, P.V.C.	3 m	CS-A1-01-G-03	95A251290
M12 Connector			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
		Corres D.V.C	5 m	CS-A2-01-G-05	95A251210
		Grey, P.V.C.	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
		6 5116	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
			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	95A251245
M12 Connector (Radial 90°)	4		2 m	CS-A2-02-R-02	95A251200
		P.U.R.			
		1.0.11.	5 m	CS-A2-02-R-05	95A251570
		OIL resistant	5 m	CS-A2-02-0-05	95A251690

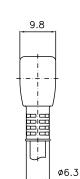
M12 Connector with LED			3 m	CS-A2-12-G-03	95A251400
(for PNP N.O. sensors)	۷.	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350
(Radial 90°)			10 m	CS-A2-12-G-10	95A251370
			3 m	CV-A1-22-B-03	95ACC1480
			5 m	CV-A1-22-B-05	95ACC1490
Shielded M12 Connector (Axial)	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
() Meny			15 m	CV-A1-22-B-15	95ACC2070
			25 m	CV-A1-22-B-25	95ACC2090
			3 m	CV-A2-22-B-03	95ACC1540
Shielded M12 Connector (Radial 90°)	4	Black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550
(114014130) /	4	U.L., Black, P.V.C.	10 m	CV-A2-22-B-10	95ACC1560
			3 m	CS-A1-02-U-03	95ASE1120
			5 m	CS-A1-02-U-05	95ASE1130
M12 Connector (Axial)			10 m	CS-A1-02-U-10	95ASE1140
() Milling			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

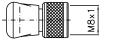
CONNECTOR







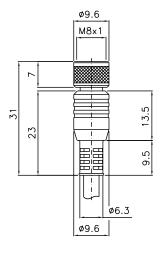








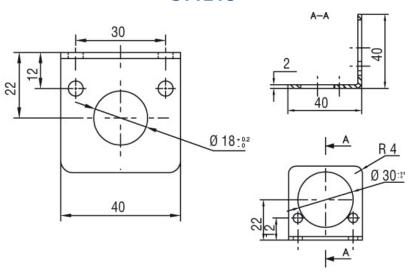
AXIAL M8



CABLES. CONNECTORS & ACCESSORIES

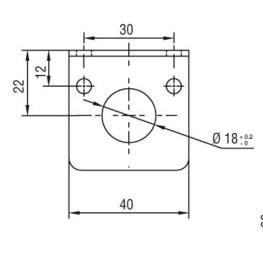
ACCESSORIES SELECTION AND ORDER INFORMATION

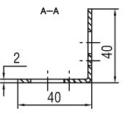
CONNECTOR	ТҮРЕ	MATERIAL	CODING	ORDER No.
M12	fixing bracket	Stainless Steel	ST1218	95ACC3340
M18	fixing bracket	Stainless Steel	ST1218	95ACC3340
M30	fixing bracket	Stainless Steel	ST1830	95ACC3350

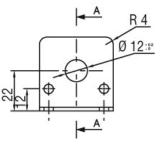


ST1218

ST1830









INDEX

INDUCTIVE

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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	10
IS-65-B1-S1	95B066070	BASIC	11
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IS-65-B2-S1	95B066110	BASIC	11
IS-65-B3-03	95B064670	BASIC	11
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		NAMUR	63
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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
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IS-65-G2-S1	95B066100	BASIC	12
IS-65-G3-03	95B064660	BASIC	12
IS-65-G3-S1	95B064980	BASIC	12
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IS-65-G4-S1	95B066020	BASIC	12
IS-65-H1-03	95B064900	BASIC	13
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IS-65-H2-03	95B064940	BASIC	13
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IS-65-H3-S1	95B066140	BASIC	13
IS-65-H4-03	95B064860	BASIC	13
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IS-08-A20-03	95B066740	NAMUR	64
IS-08-A20-03	95B066760	NAMUR	64
IS-08-A20-S1	95B066780	NAMUR	64
IS-08-A2-03	95B061151	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
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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
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IS-08-D3-03	95B066430	BASIC	17

IS-08-G1-S1 95B066850 BASIC 18 IS-08-G2-03 95B066390 BASIC 18 IS-08-G2-S1 95B066880 BASIC 18 IS-08-G2-S2 95B066800 BASIC 18 IS-08-G2-S2 95B066800 BASIC 18 IS-08-G3-S1 95B066300 BASIC 18 IS-08-G3-S2 95B066520 BASIC 18 IS-08-G4-S2 95B066550 BASIC 18 IS-08-G4-S2 95B066550 BASIC 18 IS-08-G4-S2 95B066500 BASIC 19 IS-08-H1-03 95B066400 BASIC 19 IS-08-H1-51 95B06690 BASIC 19 IS-08-H1-52 95B066500 BASIC 19 IS-08-H2-51 95B06690 BASIC 19 IS-08-H2-52 95B06690 BASIC 19 IS-08-H3-03 95B066400 BASIC 19 IS-08-H3-51 95B066400 BASIC 19 IS-08-H4-51 95B066305 STAINLESS STEEL 38 IS-08-H4-51 9
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IS-08-N1-S1 95B066980 STAINLESS STEEL 39 IS-12-F9-03
IS-08-N1-52 95B066710 STAINLESS STEEL 39 IS-12-F9-52
IS-08-N2-03 95B066510 STAINLESS STEEL 39 IS-12-G1-03
IS-08-N2-S1 95B067010 STAINLESS STEEL 39 IS-12-G1-S2
IS-08-N2-S2 95B066730 STAINLESS STEEL 39 IS-12-G2-03
IS-08-N3-03 95B066440 STAINLESS STEEL 39 IS-12-G2-S2
IS-08-N3-S1 95B066930 STAINLESS STEEL 39 IS-12-G3-03
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IS-08-N4-S2 95B066680 STAINLESS STEEL 39 IS-12-G5-03
IS-12-G5-S2
IS-12-G6-03
M12 IS-12-G6-S2
IS-12-A0-52 95B064060 BASIC 20 IS-12-H2-03
IS-12-A1-03 95B061241 BASIC 20 IS-12-H2-S2
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IS-12-A1-03 95B061241 BASIC 20 IS-12-H2-S2 IS-12-A1-52 95B061251 BASIC 20 IS-12-H3-03 IS-12-A1-503 95B060680 INDUCTIVE AC 56 IS-12-H3-52 IS-12-A15-S2 95B060690 INDUCTIVE AC 56 IS-12-H4-03 IS-12-A20-03 95B064160 NAMUR 66 IS-12-H4-52
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IS-12-A1-03 958061241 BASIC 20 IS-12-H2-52 IS-12-A1-S2 958061251 BASIC 20 IS-12-H3-03 IS-12-A1-S2 958060680 INDUCTIVE AC 56 IS-12-H3-52 IS-12-A15-S2 958060690 INDUCTIVE AC 56 IS-12-H4-03 IS-12-A20-03 958064160 NAMUR 66 IS-12-H4-S2 IS-12-A20-S2 958064180 NAMUR 66 IS-12-H5-03 IS-12-A2-03 958061271 BASIC 20 IS-12-H5-S2 IS-12-A2-S2 958061281 BASIC 20 IS-12-H6-03
IS-12-A1-03 95B061241 BASIC 20 IS-12-H2-S2 IS-12-A1-52 95B061251 BASIC 20 IS-12-H3-03 IS-12-A1-52 95B060680 INDUCTIVE AC 56 IS-12-H3-52 IS-12-A15-52 95B060690 INDUCTIVE AC 56 IS-12-H3-03 IS-12-A20-03 95B064160 NAMUR 66 IS-12-H4-52 IS-12-A20-52 95B064180 NAMUR 66 IS-12-H5-03 IS-12-A2-03 95B061271 BASIC 20 IS-12-H5-52

IS-12-A4-03 95B061211 BASIC 20

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17

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18

95B066650

95B062291

95B066940

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95B066370

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IS-08-D4-03

IS-08-D4-S2

IS-08-G1-03

IS-08-D4-S1

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IS-12-B1-S2	95B062051	BASIC	21
IS-12-B1-52	95B062071	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
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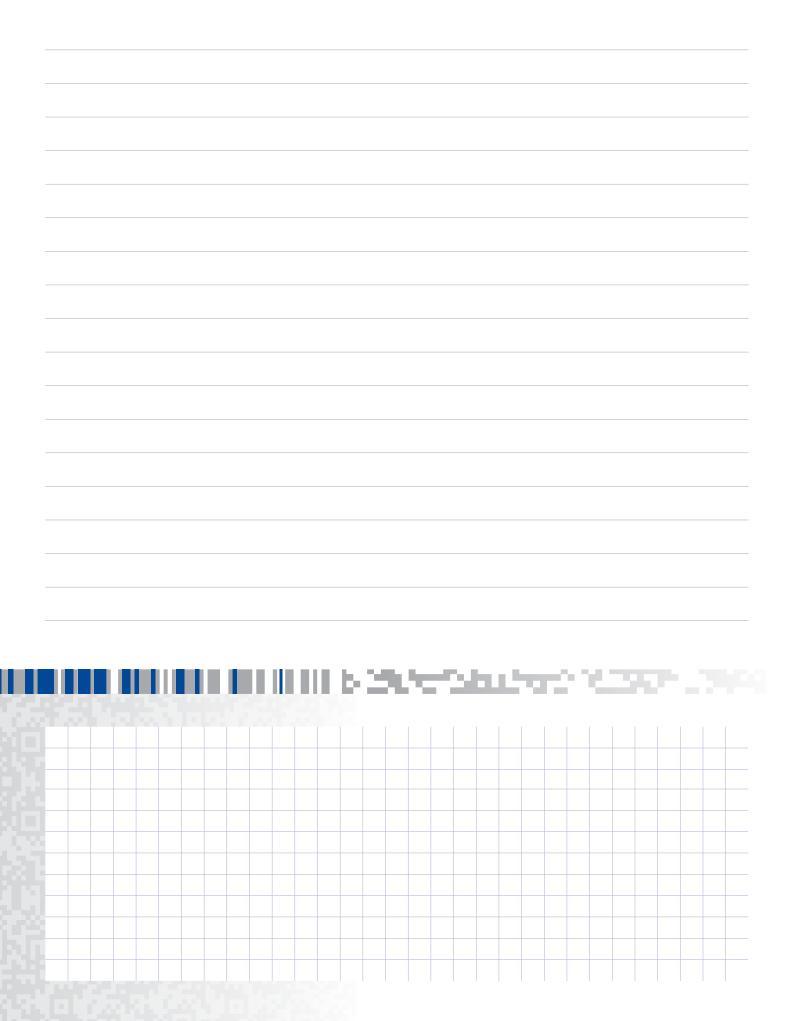
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NOTE





NOTE



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