CONFIGURABLE SAFETY CONTROLLERS
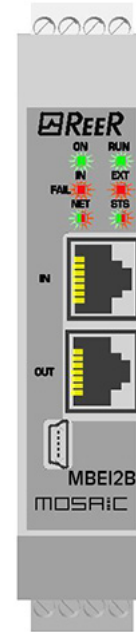
MOSAIC MBEI2B

Expansion unit for connection to the industrial Fieldbus:
Ethernet IP. With 2 RJ45 connectors (doors).Permits the
connection between MOSAIC and 2 nodes (2 different PLC).

Certifications:

CE   TÜV SÜD   cULus LISTED

Safety Level:

SIL 3

SIL 3 – SILCL 3
PL e – Cat. 4
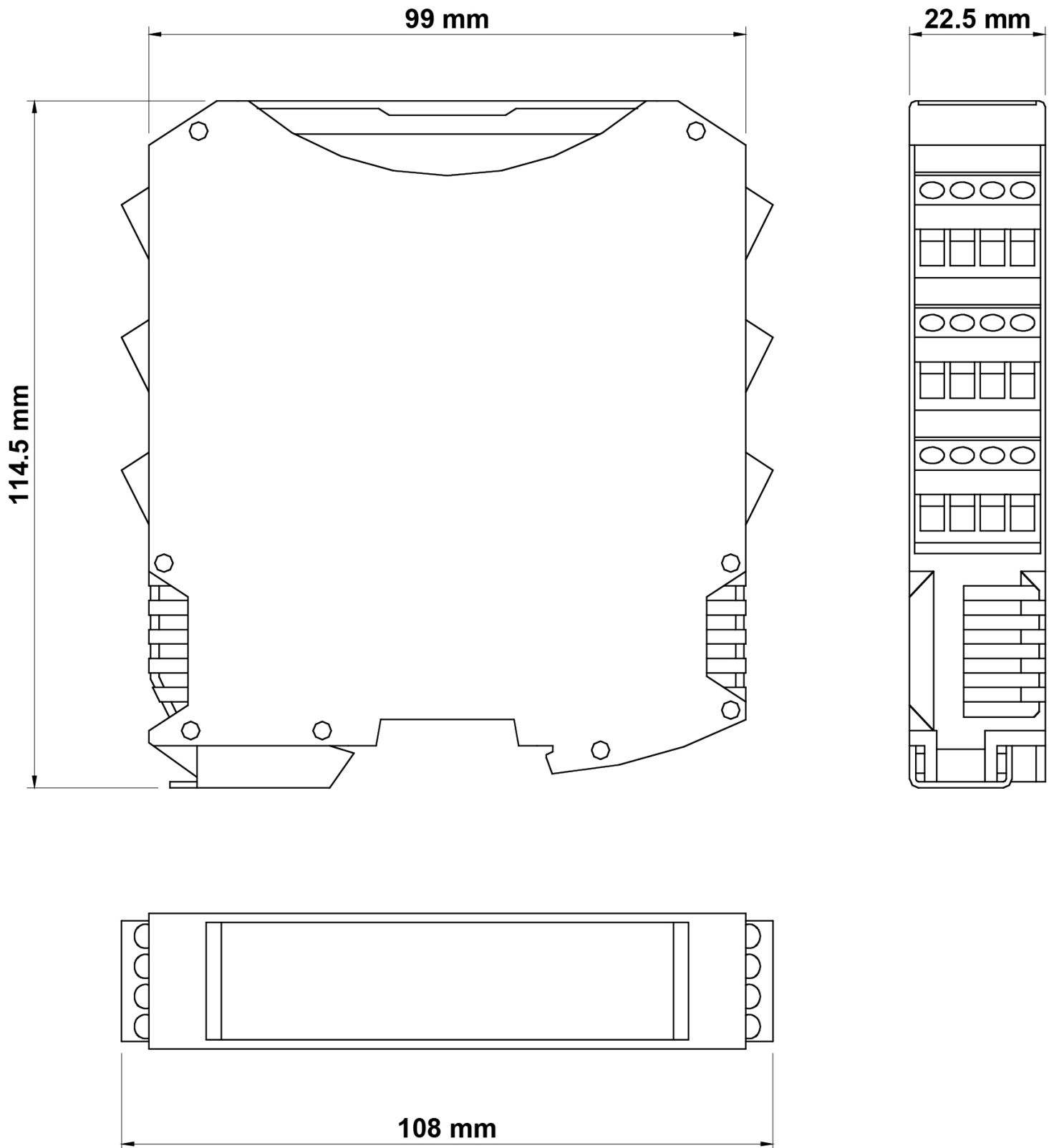
Technical data:

Family	MOSAIC
Code	1100085
Power supply (VDC)	24 +/- 20%
Connections	Removable terminal blocks, screw contacts - Ethernet IP connector. Model with 2 connectors. Permits the connection with two differnet nodes (PLC).
Degree of protection	IP 20 for housing - IP 2X for terminal block
Operating temperature (°C)	From -10 to 55
Storage temperature (°C)	from -20 to +85
Diagnostic output for BUS	ETHERNET/IP
LED signalling	Fault diagnostics
USB input	yes
Housing for MCM	-
MSC connector provided	yes
Connection with MSC BUS	yes
Dimensions HxWxD (mm)	99 x 22,5 x 114
Fastening	Rail fastening according to EN 50022-35 standard
Packaging dimensions WxHxL (mm)	160x135x60
Gross weight (Kg)	0,22

See technical drawing in the next page.

![ReeR logo]

Technical drawing:

99 mm

22.5 mm

114.5 mm

108 mm

CONFIGURABLE SAFETY CONTROLLERS

MOSAIC MBEM

Expansion unit for connection to the industrial Fieldbus:
ModBus TCP/IP

Certifications:

CE   TÜV SÜD   cULus LISTED

Safety Level:
SIL 3
SIL 3 – SILCL 3
PL e – Cat. 4

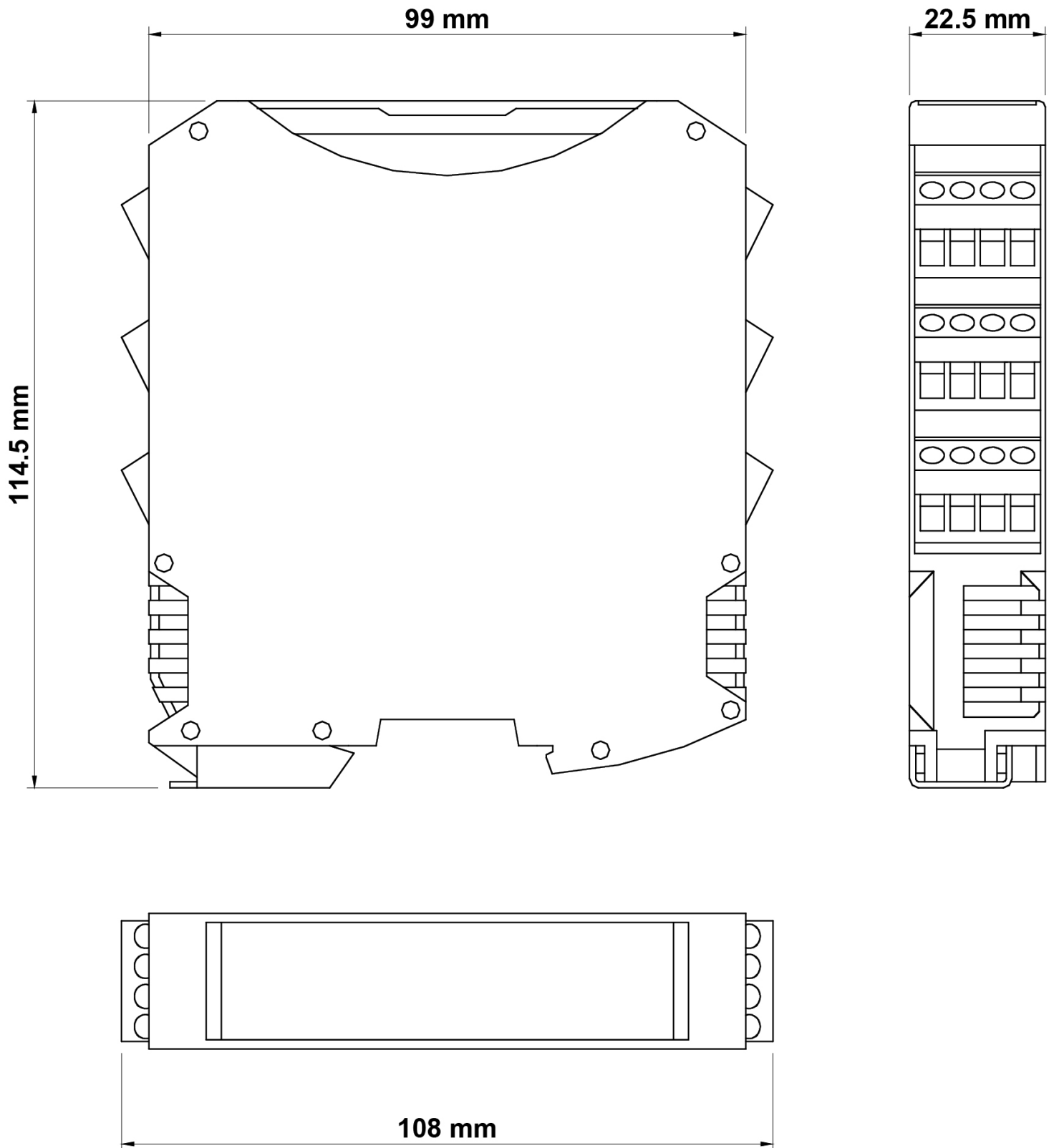## Technical data:

Family	MOSAIC
Code	1100083
Power supply (VDC)	24 +/- 20%
Connections	Removable terminal blocks, screw contacts - RJ45 connectors (ModBus TCP/IP protocol)
Degree of protection	IP 20 for housing - IP 2X for terminal block
Operating temperature (°C)	From -10 to 55
Storage temperature (°C)	from -20 to +85
Diagnostic output for BUS	ModBus TCP/IP
LED signalling	Fault diagnostics
USB input	yes
Housing for MCM	-
MSC connector provided	yes
Connection with MSC BUS	yes
Dimensions HxWxD (mm)	99 x 22,5 x 114
Fastening	Rail fastening according to EN 50022-35 standard
Packaging dimensions WxHxL (mm)	160x135x60
Gross weight (Kg)	0,22

See technical drawing in the next page.

Technical drawing:

CONFIGURABLE SAFETY CONTROLLERS

MOSAIC MBMR

Expansion unit for connection to the industrial Fieldbus:
ModBus RTU

Certifications:
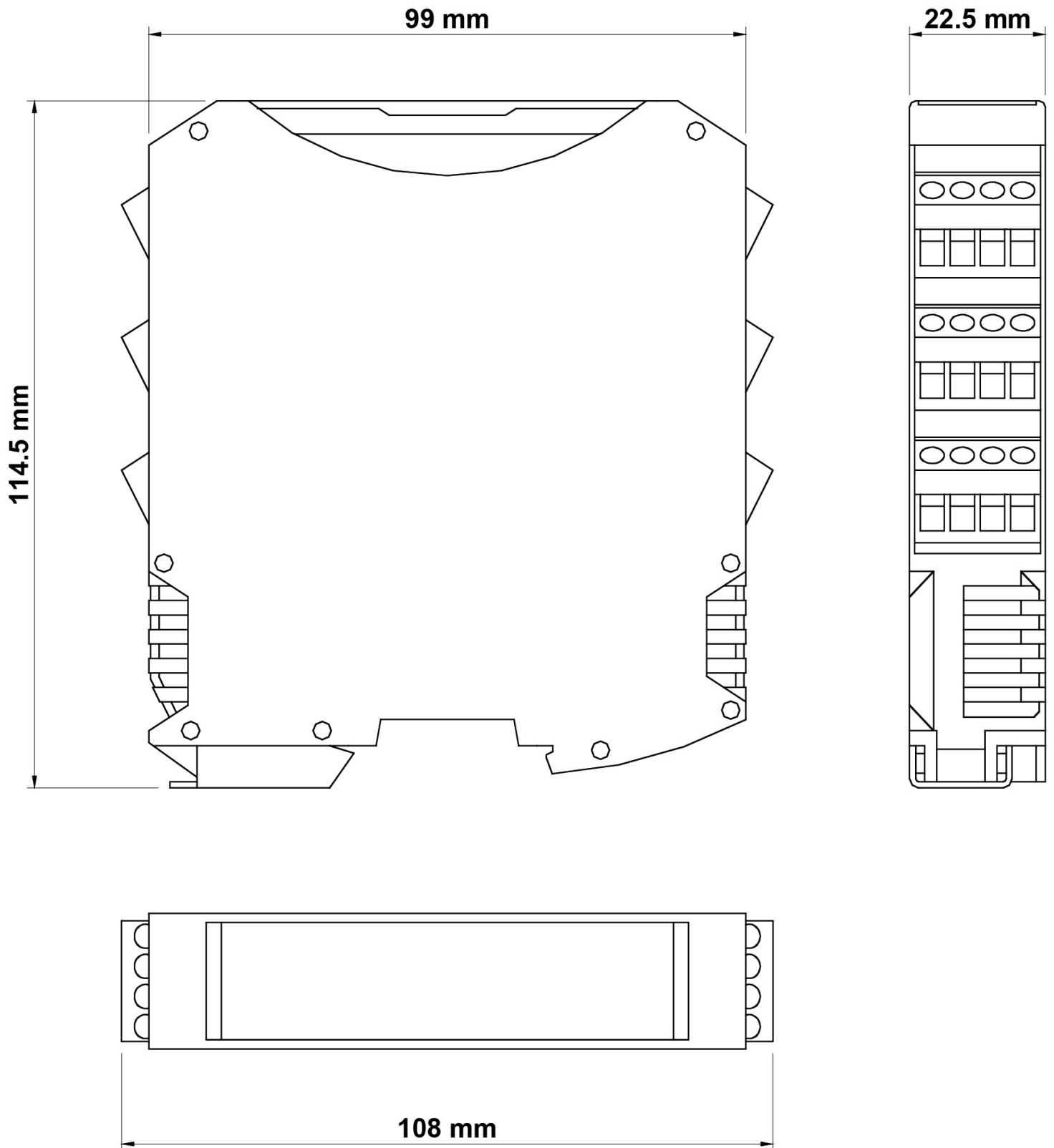
Technical data:

Family	MOSAIC
Code	1100082
Power supply (VDC)	24 +/- 20%
Connections	Removable terminal blocks, screw contacts - RJ45 connectors (ModBus RTU protocol)
Degree of protection	IP 20 for housing - IP 2X for terminal block
Operating temperature (°C)	From -10 to 55
Storage temperature (°C)	from -20 to +85
Diagnostic output for BUS	ModBus RTU
LED signalling	Fault diagnostics
USB input	yes
Housing for MCM	-
MSC connector provided	yes
Connection with MSC BUS	yes
Dimensions HxWxD (mm)	99 x 22,5 x 114
Fastening	Rail fastening according to EN 50022-35 standard
Packaging dimensions WxHxL (mm)	160x135x60
Gross weight (Kg)	0,22

See technical drawing in the next page.

ReeR

99 mm

22.5 mm
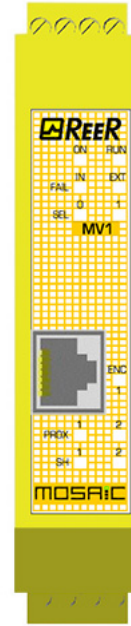
114.5 mm

108 mm

CONFIGURABLE SAFETY CONTROLLERS

MOSAIC MV1TB

Expansion module for safety speed monitoring. Inputfor 1 TTL incremental encoder (24 VDC) + 1 or 2 PNP/NPN proximity switches. Use this module with TTL encoder powered at 24 VDC.

Certifications:

Safety Level:
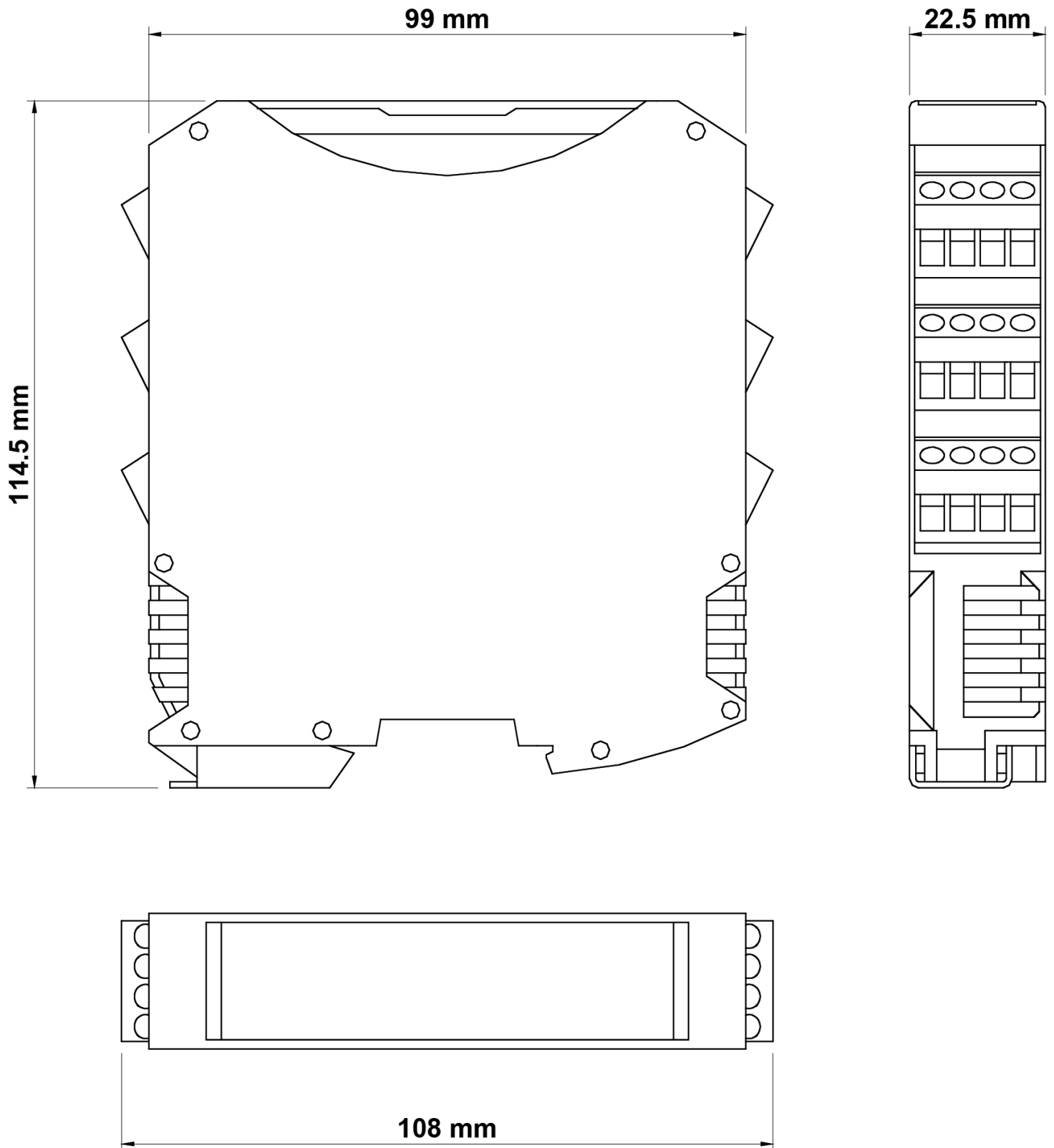
SIL 3

SIL 3 – SILCL 3
PL e – Cat. 4

Technical data:

Family	MOSAIC
Code	1100086
Power supply (VDC)	24 +/- 20%
Proximity connections	Terminal blocks
Encoder connections	RJ45
PFHd (IEC 61508)	7,82E-9
Operating temperature (°C)	From -25 to 50
Storage temperature (°C)	from -20 to +85
Dimensions HxWxD (mm)	99 x 22,5 x 114
M1 connection	Via MSC bus
Proximity type	PNP/NPN - 3/4 wires
Max. proximity frequency (KHz)	5
Max. number of proximity	2
Max. number of encoders	1
Max. number of axes	2
Max. encoder frequency (KHz)	500
Encoder Interface	TTL 24 VDC powered
Packaging dimensions WxHxL (mm)	160x135x60
Gross weight (Kg)	0,24

See technical drawing in the next page.

99 mm

22.5 mm
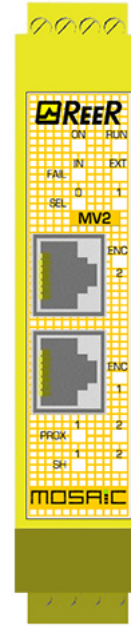
114.5 mm

108 mm

CONFIGURABLE SAFETY CONTROLLERS

MOSAIC MV2TB

Expansion module for safety speed monitoring. Inputfor 2 TTL incremental encoders (24 VDC) + 1 or 2 PNP/NPN proximity switches. Use this module with TTL encoder powered at 24 VDC.

Certifications:

Safety Level:
SIL 3
SIL 3 – SILCL 3
PL e – Cat. 4

Technical data:

Family	MOSAIC
Code	1100087
Power supply (VDC)	24 +/- 20%
Proximity connections	Terminal blocks
Encoder connections	RJ45
PFHd (IEC 61508)	9,66E-9
Operating temperature (°C)	From -25 to 50
Storage temperature (°C)	from -20 to +85
Dimensions HxWxD (mm)	99 x 22,5 x 114
M1 connection	Via MSC bus
Proximity type	PNP/NPN - 3/4 wires
Max. proximity frequency (KHz)	5
Max. number of proximity	2
Max. number of encoders	2
Max. number of axes	2
Max. encoder frequency (KHz)	500
Encoder Interface	TTL 24 VDC powered
Packaging dimensions WxHxL (mm)	160x135x60
Gross weight (Kg)	0,26

See technical drawing in the next page.

Technical drawing:

99 mm

22.5 mm

114.5 mm

108 mm