

# MM 5044

Intrinsically Safe Current Loop Isolator

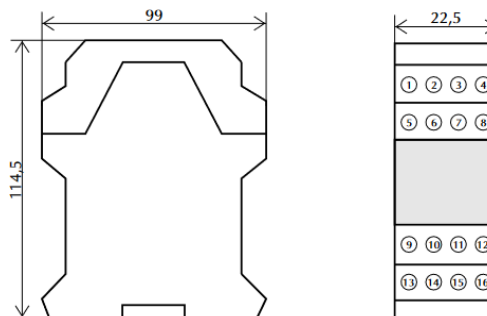
## Dual channel

Intrinsically safe  
SAFETY SYSTEMS



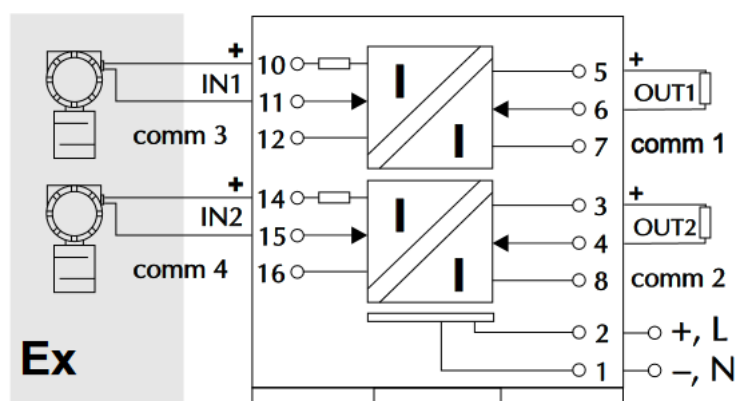
### DESCRIPTION:

The intrinsically safe isolation amplifier is designed for galvanic isolation of the measurement signal from the processing equipment. The MM 5044 includes a fully floating power source designed to power and transmit analog signals from two-wire transducers with a 4-20 mA analog output. Its design complies with the European standards EN 60079-0/60079-11. The amplifier is placed in a plastic housing adapted for mounting on a DIN 35 rail.



### PRODUCT FEATURES

- Intrinsically safe entrances
- Dual Channel Isolation Amplifier
- galvanic isolation of the input and output circuits
- galvanic isolation of the supply voltage from the input and output circuits
- universal (active/passive) inputs and outputs
- U/I, I/U, U/U possible
- Dual output



### CONNECT:

- 1 - -Ucc/N (24/12V DC power supply) / 230 V AC
- 2 - +Ucc/L (24/12V DC power supply) / 230 V AC
- 3 - Output 2 (+)
- 4 - Output 2 (-)
- 5 - output 1 (+)
- 6 - Output 1 (-)
- 7 - Output 1 (Comm 1)
- 8 - Output 2 (COMM 2)
- 10 - input 1 (+)
- 11 - Input 1 (-)
- 12 - Input 1 (Comm 3)
- 14 - input 2 (+)
- 15 - Input 2 (-)
- 16 - input 2 (comm 4)

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### Technical parameters

<b>Exemplary Marking</b>	MM 5044 AC (230V)	MM 5044 DC (24 V)
<b>Power Supply</b>		
Voltage	230 V <sub>AC</sub>	20-35 V <sub>SS</sub>
Frequency	50 Hz	N/A
Power	max 2,7 W for 24V/20mA	max 2,7 W for 24V/20mA
Galvanic separation	Input from output and power	Input from output and power
<b>Number of channels</b>	2	2
<b>Inputs and Outputs parameters</b>		
Hazardous Zone Output	0/4 - 20mA, 16,5 V przy 20 mA or chosen by user	0/4 - 20mA, 16,5 V przy 20 mA or chosen by user
Input From Hazardous Zone	2x 0/4 - 20mA, 15 V 750 Ω or chosen by user	2x 0/4 - 20mA, 15 V 750 Ω or chosen by user
Intrinsically safe Circuit	28V, 300 Ω, 93 mA	28V, 300 Ω, 93 mA
Input – Output Isolation	2,5kV (EN 60079-0/60079-11)	2,5kV (EN 60079-0/60079-11)
Accuracy (as required)	0,2 lub 0,05% from range	0,2 lub 0,05% from range
Temperature drift	0,8 μA/°C (0/4 - 20mA)	0,8 μA/°C (0/4 - 20mA)
<b>LED indication</b>		
Power Supply	Green	Green
<b>Environmental Class</b>	II 2 G /Ex ia Ga/ IIC, II 1 G /Ex ia Ga/ IIC, I M1 /Ex ia Ma/ I	II 2 G /Ex ia Ga/ IIC, II 1 G /Ex ia Ga/ IIC, I M1 /Ex ia Ma/ I
<b>Housing</b>		
Dimensions	99mm x 22,5mm x 114,5 mm (HxWxD)	99mm x 22,5mm x 114,5 mm (HxWxD)
Housing type	16-contacts	16-contacts
Material	polycarbonate/ABS	polycarbonate/ABS
Mount	DIN 35	DIN 35
Connect	Screws/ Contacts	Screws/ Contacts
IP Rating	IP20	IP20



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