

MM 5043

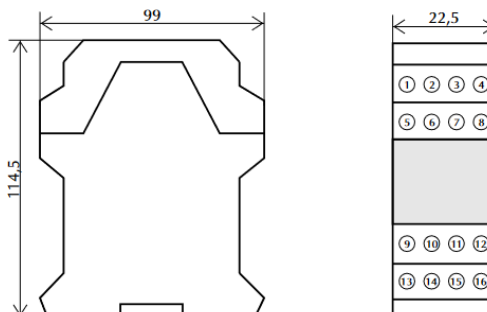
Intrinsically Safe Current Loop Isolator for Analog Signal
Transmission from Potentially Explosive Environment
Dual Output

Intrinsically safe
SAFETY SYSTEMS



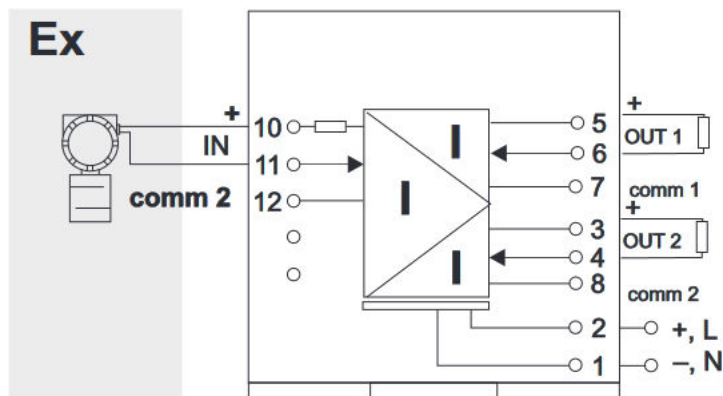
DESCRIPTION:

The intrinsically safe isolation amplifier is designed for galvanic separation of the measurement signal from the devices used to process it. The MM 5043 is a fully isolated power source designed to power and transmit analog signals of two-wire and three-wire converters with a 4-20 mA analog output. The output is doubled, mutually galvanically separated with an output signal of 0/4 - 20 mA.



PRODUCT FEATURES

- Intrinsically safe entrances
- Single-channel isolation amplifier
- galvanic separation of input and output circuits
- galvanic separation of the supply voltage from the input and output circuits
- Universal (active/passive) input and output
- Dual output



CONNECT:

- 1 - $-U_{cc}/N$ (24/12V DC power supply)/230 V AC
- 2 - $+U_{cc}/L$ (24/12V DC power supply)/230 V AC
- 3 - Output 2 (+)
- 4 - Output 2 (-)
- 8 - Output (COMM 2)
- 5 - output 1 (+)
- 6 - Output 1 (-)
- 7 - Output (COMM 1)
- 14 - input 1 (+)
- 15 - Input 1 (-)
- 16 - Input 1 (Comm 2)

MM 5043

Intrinsically Safe Current Loop Isolator for Analog Signal Transmission
from Potentially Explosive Environment

Dual Output

Intrinsically safe
SAFETY SYSTEMS



Technical parameters:

Exemplary Marking	MM 5043 AC (230V)	MM 5043 DC (24 V)
Power Supply		
Voltage	230 V _{AC}	20-35 V _{SS}
Frequency	50 Hz	N/A
Power	max 1,7 W for 24V/20mA	max 1,7 W for 24V/20mA
Galvanic separation	Input from output and power	Input from output and power
Number of channels	1/2	1/2
Inputs and Outputs parameters		
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)
LED indication		
Power Supply	Green	Green
Environmental Class	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
Housing		
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