

# MM 5062

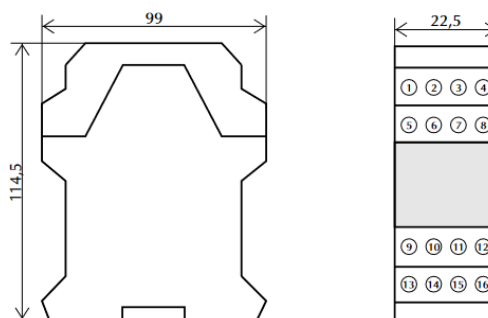
Intrinsically safe bus isolator

Intrinsically safe  
SAFETY SYSTEMS



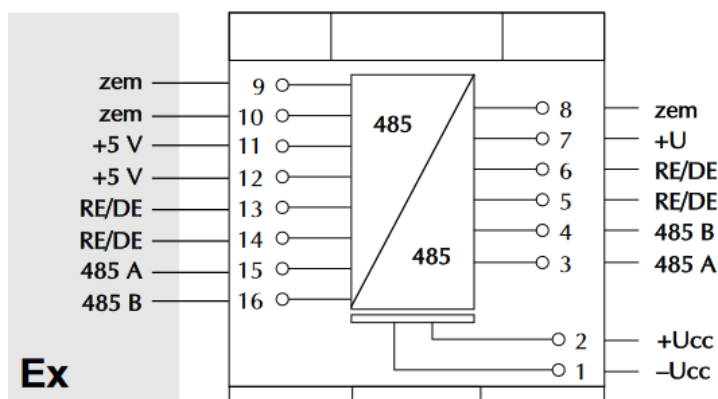
## DESCRIPTION:

The intrinsically safe isolation amplifiers MM 5062 are designed for galvanic isolation and transmission of RS485 bus signals to RS485 bus from an explosive environment of gases and vapours to an explosion-free environment. They are connected as an active element between an intrinsically safe block equipped with a communication bus and a higher-level data acquisition system. Everything is made in a special version in accordance with the ČSN EN 60079-11 standard. To ensure proper communication, the delay between receiving and transmitting data after receiving the last bit should be set by software on the associated devices to be approximately 1 ms at a bit rate of 19.2 kBd (2 ms for 9.6 kBd, etc.).



## PRODUCT FEATURES

- Intrinsically safe RS485 bus input
- Output - RS485 bus
- Bi-directional transmission
- Transmission speed 38 kBd



## CONNECT:

- 1 - N/- Ucc
- 2 - L/+ Ucc
- 3 - 485 A
- 4 - 485 B
- 5 - RE/DE
- 6 - RE/DE
- 7 - + U
- 8 - Ground 1
- 9 - Ground 2
- 10 - Ground 2
- 11 - + 5 V
- 12 - + 5 V
- 13 - RE/DE
- 14 - RE/DE
- 15 - 485 A
- 16 - 485 B

# MM 5062

Intrinsically safe RS422 and 485/Rx Bus Isolator

Intrinsically safe  
SAFETY SYSTEMS



Technical parameters:

<b>Exemplary Marking</b>	MM 5062 AC (230V)	MM 5062 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 3 W for 24V/20mA	max 3 W for 24V/20mA
Galvanic separation	Input from output and power	Input from output and power
<b>Number of channels</b>	1	1
<b>Inputs and Outputs parameters</b>		
Hazardous Zone Output	RS485	RS485
Input From Hazardous Zone	RS485	RS485
Intrinsically safe Circuit	13,02V, 112 Ω, 125 mA	13,02V, 112 Ω, 125 mA
Input – Output Isolation	2,5kV (EN 60079-11)	2,5kV (EN 60079-11)
<b>LED indication</b>		
Power Supply	Green	Green
<b>Environmental Class</b>	II (1G) [Ex ia] IIC, I M1 /Ex ia/ I.	II (1G) [Ex ia] IIC, I M1 /Ex ia/ 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