

MM 5024, (5021, 5022, 5023)

Intrinsically safe isolator - controlled power supply, control of valves and other equipment in hazardous areas (Solenoid / alarm driver)

INTRINSICALLY
SAFE
SECURITY SYSTEMS

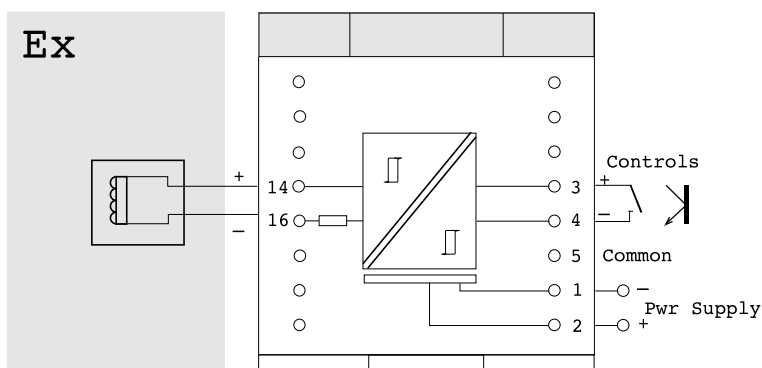
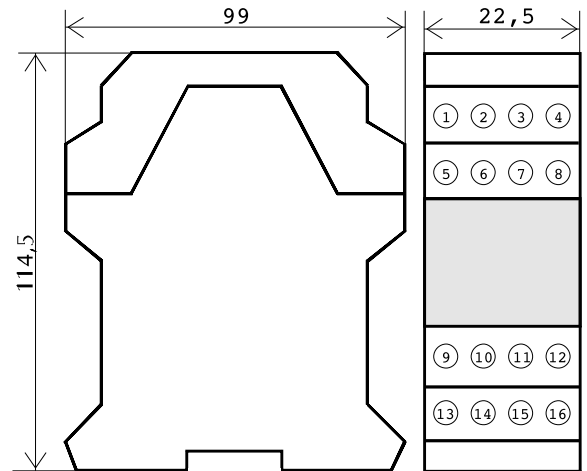


DESCRIPTION:

Intrinsically safe isolator MM 5024 allows an on/off device in a hazardous area to be controlled by a volt-free contact or logic signal in the safe area. The MM 5024 is suitable for driving loads such as solenoids, alarms, LEDs and other low powered devices certified as intrinsically safe or classified as non energy storing simple apparatus. A phase reversal switch enables the user to select which phase of input signal will drive the output on.

KEY POINTS:

- Intrinsically safe output
- Galvanic isolation of input and output circuit
- Galvanic isolation of the power supply from input and output
- Universal (active/passive) input



CONNECTION:

- 1 - Power Supply -Ucc/N
- 2 - Power Supply +Ucc/L
- 3,4 - Input
- 14,16 - Output

Power Supply:

- 230 V_{AC} / 50 Hz - MM 5024 AC version;
- 20-35 V_{DC} - MM 5024 DC version

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ISKROBEZPIECZNE
SYSTEMY
BEZPIECZEŃSTWA



TECHNICAL DATA:

Exemplary Marking	MM 5024 230 V AC	MM 5024 24 V DC (20 - 28 V)	MM 5024 12 V DC (10 - 16 V)
Identyfification code			
for: 28 V output, 93 mA, 300 Ω	5024 230 28	5024 024 28	5024 012 28
for: 16 V output, 1 mA, 100 Ω	5024 230 16	5024 024 16	5024 012 16
for: 10 V output, 200 mA, 50 Ω	5024 230 10	5024 024 10	5024 012 10
Power Supply			
Voltage	230 V _{AC}	20-28 V _{DC}	10-16 V _{DC}
Frequency	50 Hz	N/A	N/A
Polarity:	negative - positive, user selectable	negative - positive, user selectable	negative - positive, user selectable
Power	?	?	?
Power input at full load	max. 2.5 VA	max. 2.5 VA	max. 2.5 VA
Galvanic separation	Wejście od wyjścia i zasilania	Wejście od wyjścia i zasilania	Wejście od wyjścia i zasilania
Number of channels	1	1	1
Parametry wejść i wyjść			
Switching Characteristic	output turns off at U _{in} < 1.4 V output switches on at U _{in} > 4.5 V	output turns off at U _{in} < 1.4 V output switches on at U _{in} > 4.5 V	output turns off at U _{in} < 1.4 V output switches on at U _{in} > 4.5 V
Input from the hazardous area	Two-wire input according to NAMUR/DIN19234, contact or voltage	Two-wire input according to NAMUR/DIN19234, contact or voltage	Two-wire input according to NAMUR/DIN19234, contact or voltage
Intrinsically Safe Circuit	28 V output, 93 mA, 300 Ω	16 V output, 1 mA, 100 Ω	10 V output, 200 mA, 50 Ω
Input - Output Isolation	?	?	?
Insulation test voltage	> 5 kV	> 5 kV	> 5 kV
Dokładność (zgodnie z wymogami)	?	?	?
Dryft temperaturowy	?	?	?
LED Indication			
Power Supply	Green	Green	Green
Output State	Yellow	Yellow	Yellow
Fault	Red	Red	Red
Line Fault Detection Control (LFD)	N/A	N/A	N/A
LFD Output - Open Collector	N/A	N/A	N/A
Environmental Class	II 2 G [Ex ia] IIC, II 1 G [Ex ia] IIC, I M1 [Ex ia] I	II 2 G [Ex ia] IIC, II 1 G [Ex ia] IIC, I M1 [Ex ia] I	II 2 G [Ex ia] IIC, II 1 G [Ex ia] IIC, I M1 [Ex ia] I
Housing			
Dimensions	99 mm x 22.5 mm x 114.5 mm (HxWxD)	99 mm x 22.5 mm x 114.5 mm (HxWxD)	99 mm x 22.5 mm x 114.5 mm (HxWxD)
Housing Type	16 Contacts	16 Contacts	16 Contacts
Material	polycarbonate/ABS	polycarbonate/ABS	polycarbonate/ABS
Flammibility Standard	V-0 according to UL94	V-0 according to UL94	V-0 according to UL94
Mounting	DIN 35	DIN 35	DIN 35
Fixing	Screws/Contacts	Screws/Contacts	Screws/Contacts
Max. Wire Diameter	2 x 2.5 mm ²	2 x 2.5 mm ²	2 x 2.5 mm ²
IP Rating	IP20	IP20	IP20
Temperature Range	-25 - 60°C	-25 - 60°C	-25 - 60°C



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