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M+F I Systems

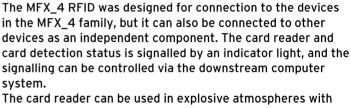
MFX_4 RFID

The high-performance MFX_4 system-based flow computer meets the highest standards for flexible and reliable Office of Weights and Measures testing, for mixing and for the control of processes in liquid handling, particularly for petroleum products. With more than 30 years of operational experience and 18,000 installations, the fourth generation combines longstanding industry experience with state-of-the-art technology and uses communication standards that have never before been applied to industrial flow computers.

Because of the wide variety of different protocols and communication standards they support, all MFX 4 systems can be easily integrated, quickly configured and serviced remotely while in operation. In order to substantially expand the range of application options, the MFX_4 system-based flow computer sets itself apart with its distributed architecture consisting of centralised processing units and decentralised control units.

MFX_4 RFID card-reading unit

The MFX_4 RFID (Radio Frequency Identification) is the external explosion-proof version of the multi-protocol card reader for contactless identification and access control based on RFID cards in 13.56 MHz technology. The device supports a wide range of card types and transmits the data it has read to the connected device via a bus-enabled RS485 interface.



Zone 1 classification.

A range of different mounting kits can be purchased as an optional accessory.





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MFX_4 RFID

CHARACTERISTICS

Approvals	ATEX IECEX TR-CU 012/2011			
Device Identification	ATEX: II 2 G Ex mb IIB T4			
Housing	W 75 mm x H 125 mm x D 50 mm, IP66			
Weight	300 g			
Operating temperature	-20 °C +60 °C			
Storage temperature	-25 °C +70 °C			
Supply voltage	12 $V_{DC} \pm 10 \%$ or 24 $V_{DC} \pm 10 \%$ Ptyp = 0,6 W Pmax = 1,5 W			
Card reader	RFID proximity Working frequency = 13,56 MHz Maximum signal strength = 24,5dB Typical range = 2 cm	m		
Supported RFID tags	Mifare Classic 1K S50 Mifare Classic 4K S70 Mifare Classic 1K SLE66R35 Mifare Classic Ultralight I-Code SLI SL2 I-Code EPC SL2 ICS10 I-Code 1 ICS30	ISO 14443A ISO 14443A ISO 14443A ISO 14443A ISO15693 ISO15693 ISO15693		
Interfaces	1 x RS485			
BUS capability	[optional]			
Protocols	Serial (RS422/RS485)			
Outputs	1 x Digital Output (passive MOSFET)		30 V / 100 mA	
Light Indicators	Operational Mode (yellow) Card acceptance (green) Card rejection (red)			
Communication Cable	Cable length = 0,8 m			



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PRODUCT KEY MFX_4 RFID

	4000007 + [Interfaces] e.g. 4000007 + Standalone		
Basic Unit	Supply voltage: 12 24 VDC		
Interfaces	Standalone = Basic equipment / Unit + BUS Coupler for itemized / single use or usage Erweiterung = Basic equipment / Unit as expansionmodule for MFX_4 Terminal or existing BUS system		

PINOUT

The electrical connections of the MFX_4 RFID are exclusively over/via the connector cable.

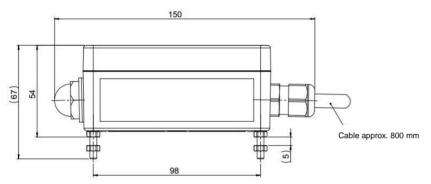
Cable number	Symbol	Comments
1	+ V	Supply voltage
2	GND	Grounding
3	Out -	Digital output
4	A	T+ (RS485)
5	В	T- (RS485)
6	Z	R- (RS485)
7	Υ	R+ (RS485)
Shield		Shielding

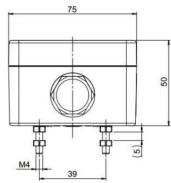


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DIMENSIONS





Measurements

nnn : Measurements in Millimeter (nnn) : Variable measurements in

Millimeter