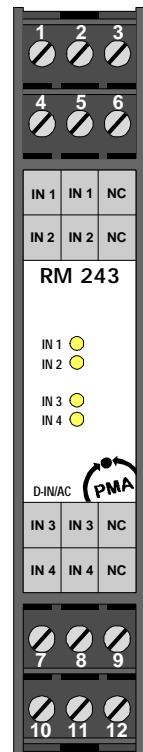


Digital Input Module RM 243

Safety Instructions

 ESD ! <ul style="list-style-type: none"> • contains electrostatically sensitive components • Original packing protects against electrostatic discharge (ESD) • Transporting only in the original packing • during mounting rules for protection against ESD must be followed 	 Connections <ul style="list-style-type: none"> • Wiring must be conform to local standards (e.g. VDE 0100 in Germany) ! • Input leads must be kept separate from signal and mains leads ! • The protective earth must be connected to the relevant terminal (in the instrument carrier) ! • The cable screening must be connected to the terminal for grounded measurement ! • Usage of twisted and screened input leads prevent stray electric interference ! • Connections must be made according to the connecting diagrams ! 	 Maintenance / Repair <p>Instrument needs no particular maintenance.</p> <p>! When opening the instrument live parts or terminals can be exposed. Before carrying out the instrument must be disconnected from all voltage sources. The instrument contains electrostatically sensitive components. The following work may be carried out only by trained, authorized persons.</p> <p>Fuse tripped:</p> <ul style="list-style-type: none"> • Cause must be determined and removed ! • Only fuses of the same type and current rating as the original fuse must be used. • Using repaired fuses or short-circuiting the fuse socket is inadmissible !
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Pin Assignment



Pin	Assignment	
1	IN 1	Input 1
2	IN 1	
3		not connected
4	IN 2	Input 2
5	IN 2	
6		not connected
7	IN 5	Input 3
8	IN 6	
9		not connected
10	IN 7	Input 4
11	IN 8	
12		not connected
Art.-No.	9407-738-24301	

Technical Data RM 243

Application:	digital 4-channel input module for 230 V AC signals (also suitable for 110 V systems)
Power supply:	The module is supplied with the necessary voltages via the bus board.
Power consumption:	max. 490 mW (all channels on)
Input impedance:	240 kΩ per channel (at 50 Hz)
Switching thresholds:	Level for High / Low: <ul style="list-style-type: none">• Low = 0...50 V• High = 90...250 V
Input filter:	Input delay per channel ≤ 50 ms
Protection:	The inputs are protected from overvoltages by VDR (300 V DC / 250 mW).
LED displays:	4x LEDs (yellow): status for each input
Galvanic isolation:	The logic part is galvanic isolated from the input area of the module. In addition, the inputs are also galvanic isolated from each other. (testing voltage 2 kV DC, isolation voltage 500 V DC)
Ambient temperature:	<ul style="list-style-type: none">• Storage temperature: -20 ... +70 °C• Operation temperature: 0 ... +50 °C
Humidity:	≤ 75% rel. humidity, no condensation
Shock sensitivity:	DIN 40046 IEC68-2-69
EMC:	<ul style="list-style-type: none">• DIN EN 50081, Part 2• DIN EN 50082, Part 2 CE
Electrical connections:	Screw-/plug-in-terminals, line cross-section max. 2.5 mm ²
Class of protection:	IP 20
Dimensions:	99 x 17.5 x 114.5 mm (h x w x d)
Weight:	76 g
Housing:	Material: Polyamid PA 6.6, combustibility class V0 according to UL 94
Assembly:	plugged-in and locked in from the front of the base module
Usage position:	vertical