

Data sheet

SM M21 - Digital input (M21-1BH00)

Technical data

Order no.	M21-1BH00
Type	SM M21 - Digital input
Module ID	0014 9FC2
General information	
Note	-
Features	16x DI DC 24 V
Current consumption/power loss	
Current consumption from backplane bus	65 mA
Power loss	0.9 W
Technical data digital inputs	
Number of inputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	-
Current consumption from load voltage L+ (without load)	25 mA
Rated value	DC 20.4...28.8 V
Input voltage for signal "0"	DC 0...5 V
Input voltage for signal "1"	DC 15...28.8 V
Input voltage hysteresis	-
Signal logic input	Sinking input
Frequency range	-
Input resistance	-
Input capacitance	-
Input current for signal "1"	3 mA
Connection of Two-Wire-BEROs possible	yes
Max. permissible BERO quiescent current	0.5 mA
Input delay of "0" to "1"	3 ms
Input delay of "1" to "0"	3 ms
Number of simultaneously utilizable inputs horizontal configuration	16
Number of simultaneously utilizable inputs vertical configuration	16
Input characteristic curve	IEC 61131-2, type 1
Initial data size	16 Bit
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	none
Module state	none
Module error display	red LED

Channel error display none

Isolation

Between channels -

Between channels of groups to -

Between channels and backplane bus yes

Insulation tested with DC 500 V

Datasizes

Input bytes 2

Output bytes 0

Parameter bytes 0

Diagnostic bytes 0

Housing

Material PPE / PPE GF10

Mounting Profile rail 35 mm

Mechanical data

Dimensions (WxHxD) 26 mm x 88 mm x 71 mm

Net weight 91 g

Weight including accessories 91 g

Gross weight 104 g

Environmental conditions

Operating temperature 0 °C to 60 °C

Storage temperature -25 °C to 70 °C

Certifications

UL certification yes

KC certification yes

UKCA certification yes

ChinaRoHS certification yes