

16-channel Discrete Input

24 V dc, isolated, sinking

8122-DI-DC

- ◆ 16 input channels
- ◆ 24 V dc field voltage sources
- ◆ individually isolated channels
- ◆ user definable input threshold
- ◆ pulse counting option

MODULE SPECIFICATION

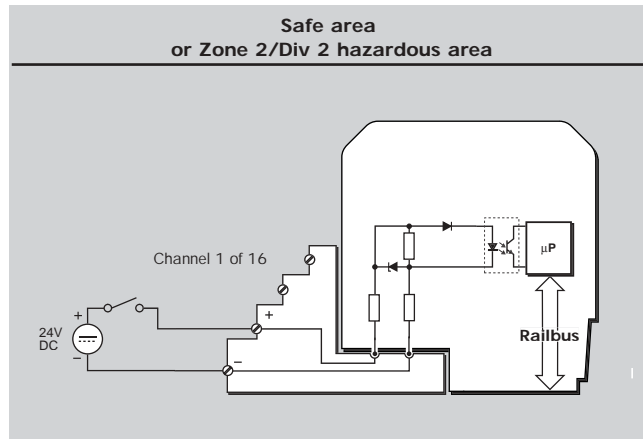
See also System Specification

INPUTS

Number of channels	16
OFF voltage	< 3.4 V dc
ON voltage	> 11 V dc
Wetting current	2.8 mA (nom.) @ 24 V dc
Minimum pulse width detected	5 ms
Max input freq in pulse counting mode (no-debounce)	100 Hz
Maximum voltage	
Input	30 V dc
Reverse input	- 25 V dc
Isolation (Any Channel to railbus)	250 V ac
Isolation (channel to channel)	150 V peak

CONFIGURABLE PARAMETERS

Selectable input filter	fast, slow or user defined (User defined permits 0 to 512 ms values in 2ms steps)
Latch inputs	enable /disable
Latch polarity	latch on high / latch on low
Pulse counting	enable /disable



RESPONSE TIME

I/O response time	5 ms (max.)
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(Field event to new data available on Railbus)

SAFETY

FM non-incendive field wiring parameters (each channel)	$V_{max} = 30 \text{ V}; I_{max} = 100 \text{ mA}; C_1 = 0 \text{ } \mu\text{F}; L_1 = 0 \text{ mH}$
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POWER SUPPLIES

Railbus (12V) current	90 mA (typ.)
.....	135 mA (max.)
Bussed Field Power	not required

MECHANICAL

Module Key Code	E2
Module width	42 mm
Weight	210 g

FIELD TERMINAL

Field wiring	Recommended Field Terminal	Compatible Field Terminal
General purpose	8617-FT-NI † 16 channel DI	-
Class 1, Div 2 or Zone 2 hazardous areas	8617-FT-NI † 16 channel DI	-

† External fusing of the Field Power supply is recommended in order to protect the field wiring.