

16-channel Discrete Input

24 V dc, non-isolated, module-powered

8121-DI-DC

- ◆ 16 input channels
- ◆ for dry contact switches
- ◆ 24 V dc provided on input high side
- ◆ returns commoned internally
- ◆ pulse counting option
- ◆ 24 V dc bussed field power required

MODULE SPECIFICATION

See also System Specification

INPUTS

Number of channels	16
OFF current	< 0.3 mA
ON current	> 1.2 mA
Wetting current	2.8 mA (typ.)
Minimum pulse width detected	5 ms
Max input freq in pulse counting mode (no-debounce)	100 Hz
Isolation (any channel to Railbus)	250 V ac

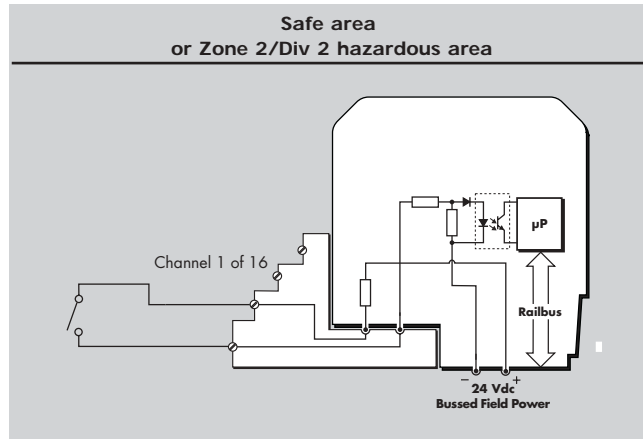
CONFIGURABLE PARAMETERS

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)
 $V_{oc} = 30 \text{ V}$; $I_{sc} = 3.5 \text{ mA}$; $C_a = 0.12 \mu\text{F}$; $L_a = 1000 \text{ mH}$

POWER SUPPLIES

Railbus (12V) current	90 mA (typ.)
.....	135 mA (max.)
Bussed Field Power	60 mA, @ 18–30 V dc

MECHANICAL

Module Key Code	E1
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	–