

8-channel Discrete Input



24 V dc, isolated, sinking

8109-DI-DC

- ◆ 8 discrete isolated inputs
- ◆ 24 V dc field voltage sources
- ◆ user definable input threshold
- ◆ pulse counting option

MODULE SPECIFICATION

See also System Specification

INPUTS

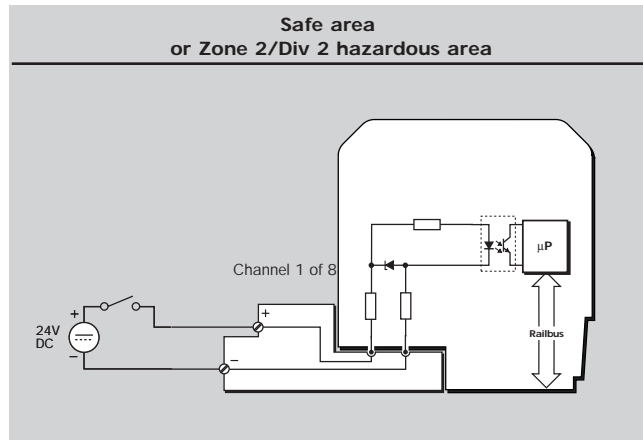
Number of channels8
 OFF voltage.....< 3.2 V dc
 ON voltage.....> 11 V dc
 Wetting current6.3 mA (nom.) @ 24 V dc
 Minimum pulse width detected3 ms
 Maximum switching frequency (no-filtering).....200 Hz
 Maximum voltage
 Input30 V dc
 Reverse input.....- 25 V dc

CONFIGURABLE PARAMETERS

Selectable input filterfast, slow or user defined
 (User defined permits 0 to 512 ms values in 2ms steps)
 Latch inputsenable /disable
 Latch polarity.....latch on high / latch on low
 Pulse countingenable /disable

RESPONSE TIME

I/O response time
 Field event to new data available on Railbus.....3 ms (max.)



SAFETY

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

POWER SUPPLIES

Railbus (12V) current.....35 mA (typ.)
55 mA (max.)
 Bussed Field Powernot required

MECHANICAL

Module Key Code.....B2
 Module width42 mm
 Weight.....170 g

FIELD TERMINAL

Field wiring	Recommended Field Terminal	Compatible Field Terminal
General purpose	8602-FT-ST Standard †	8604-FT-FU Fused
Class 1, Div 2 or Zone 2 hazardous areas	8610-FT-NA Non-arcing †	8611-FT-FU Non-arcing Fused

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

