

8-channel Discrete Input



24 V dc, non-isolated, module powered

8 110-DI-DC

- ◆ 8 discrete inputs
- ◆ 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

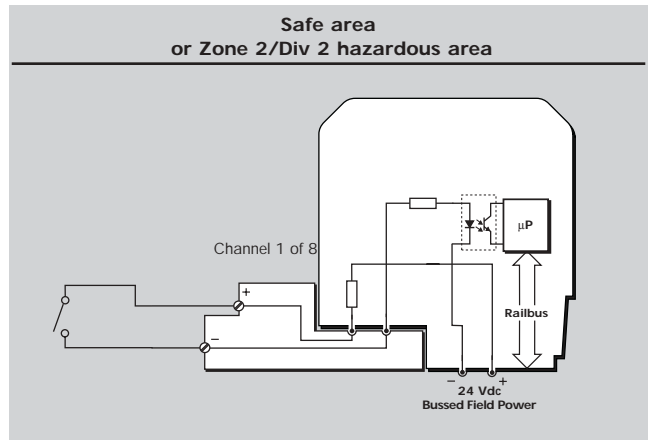
Number of channels	8
OFF current	< 0.69 mA
ON current	> 2.24 mA
Wetting current	5 mA (typ.)
Minimum pulse width detected	3 ms
Maximum switching frequency (no-filtering)	200 Hz
Isolation (any channel to Railbus)	250 V ac

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	Field event to new data available on Railbus.....3 ms (max.)
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SAFETY

FM non-incendive field wiring parameters (each channel)
 $V_{oc} = 30 \text{ V}$; $I_{sc} = 15.2 \text{ mA}$; $C_a = 0.12 \mu\text{F}$; $L_a = 151 \text{ mH}$

POWER SUPPLIES

Railbus (12V) current	35 mA (typ.)
.....	55 mA (max.)
Bussed Field Power	40 mA, @ 18–30 V dc

MECHANICAL

Module Key Code	B1
Module width	42 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	8601-FT-NI Non-incendive †	8603-FT-FU Non-incendive, fused

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

