

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
- 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

- Field event to new data available on Railbus – 5 ms (max.)

SAFETY

FM non-incendive field wiring parameters (each channel)

- $V_{max} = 30$ V; $I_{max} = 100$ mA; $C_1 = 0$ μ F; $L_1 = 0$ mH

POWER SUPPLIES

Railbus (12V) current

- 90 mA (typ.)
- 135 mA (max.)

Bussed Field Power

- Required

MECHANICAL

Module Key Code

- E2

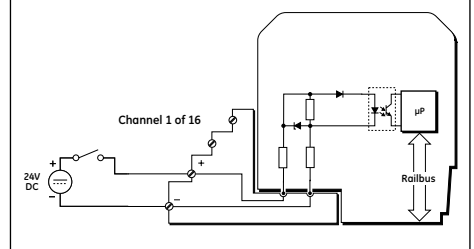
Module width

- 42 mm

Weight

- 210 g

SAFE AREA OR ZONE 2/ DIV2 HAZARDOUS AREA



FIELD TERMINALS

Field Wiring	Recommended Field Terminal	Compatible Field Terminal
General purpose	8617-FT-NI [†] 16 Channel DI	—
Class 1, Div 2 or Zone 2 hazardous area	8617-FT-NI [†] 16 Channel DI	—

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