

32-Channel Discrete Input

Switch/Proximity Detector Inputs, Module Powered

8125-DI-DC

- 32 input channels
- For Dry Contact Switches or Proximity Detectors
- Pulse Counting and Latching Option
- 24 V dc bussed field power required
- Line fault detection on all inputs (switch inputs need resistors)

MODULE SPECIFICATION

See also System Specification

Number of Channels

- 32

INPUT SPECIFICATION

OFF current

- <1.2 mA

ON current

- >2.1 mA

Short Circuit Current

- 8.6 mA (typ)

Output Resistance

- 950 Ω (typ)

Open Circuit output voltage

- 8.2V dc (typ)

Line Fault Detection

- Short Circuit – <100 Ω
- Open Circuit – <50 μA

Input voltage range without damage

- 0 to +12 V dc

Isolation

- Channel to Railbus – 250 V ac

Input sampling rate (all 32)

- 8 kHz

Input Pulse Width

- 250 μS (min)

DI Counting frequency without loss

- 500 Hz (max)

Applicable Specification

- NAMUR, DIN 19234

CONFIGURABLE PARAMETERS

Input Filter

- 0 to 8.192 secs in 250 μS steps

Pulse Counting

- On / Off

Latching

- On / Off

RESPONSE TIME

Input Module Scan Time

- <1 mS

(Inputs sampled at 8kHz and processed every 1 mS)

SAFETY

FM non-incendive field wiring parameters (each channel)

- $V_{oc} \leq 8.64 \text{ V}$; $I_{sc} \leq 18.5 \text{ mA}$; $C_o \leq 28 \text{ } \mu\text{F}$; $L_o \leq 23.6 \text{ mH}$

POWER SUPPLIES

Railbus(12V) current

- <50 mA

Bussed Field Power

- 190 mA (max) at 24V dc

MECHANICAL

Module Key Code

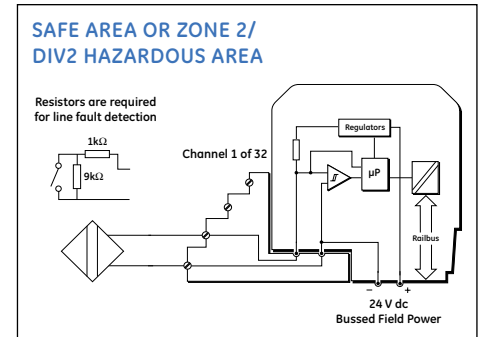
- B3 Non Arcing

Module Width

- 42 mm

Weight

- 185 g



FIELD TERMINALS

Field Wiring	Recommended Field Terminal	Compatible Field Terminal
General purpose	8617-FT-NI 30 Channel DI	8619-FT-MT 32 Channel DI
Class 1, Div 2 or Zone 2 hazardous area	8617-FT-NI 30 Channel DI	8619-FT-MT 32 Channel DI