

# 32-channel Discrete Input

## 24V dc, non-isolated, module-powered

8 125-DI-DC

- ◆ up to 32 input channels
- ◆ for dry contact switches or proximity detectors
- ◆ pulse counting and latching option
- ◆ 24V dc bussed field power required
- ◆ line fault detection on all inputs

### MODULE SPECIFICATION

See also System Specification

#### INPUT

Number of channels .....	32
OFF current .....	< 1.2mA
ON current .....	> 2.1mA
Short circuit current .....	8.6mA (typ.)
Output resistance .....	950Ω (typ.)
Open circuit output voltage .....	8.2V dc (typ.)
<b>Line fault detection</b>	
Short Circuit .....	< 100Ω
Open Circuit .....	< 50μA
Input voltage range without damage .....	0 to +12V dc
Isolation (channel to Railbus) .....	250V ac
Input sampling rate (all 32) .....	8kHz
Input pulse width .....	250μs (min.)
DI counting frequency without loss .....	500Hz (max.)
Applicable specification .....	NAMUR, DIN 19234

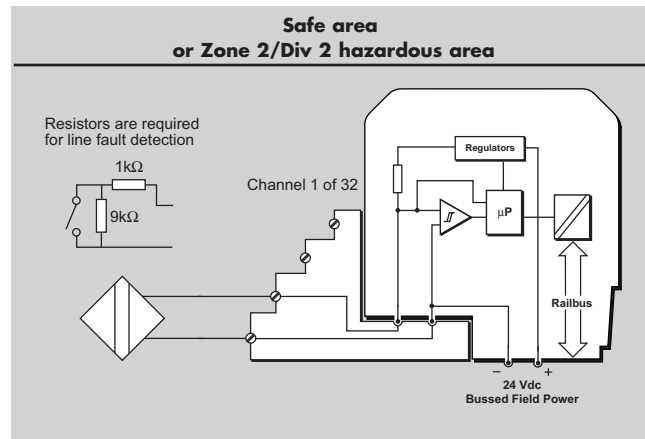
#### CONFIGURABLE PARAMETERS

Input filter .....	0 to 8.192secs in 250μs steps
Pulse counting .....	on/off
Latching .....	on/off

#### RESPONSE TIME

Input module scan time .....	< 1ms
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(Inputs sampled at 8kHz and processed every 1ms)



#### SAFETY

**FM non-incendive field wiring parameters** (each channel)  
 $V_{oc} = 8.64V$ ;  $I_{sc} = 18.5mA$ ;  $C_a = 28\mu F$ ;  $L_a = 23.6mH$

#### POWER SUPPLIES

Railbus (12V) current .....	< 50mA
Bussed field power .....	190mA (max.) at 24V dc

#### MECHANICAL

Module Key Code .....	B3
Module width .....	42mm
Weight .....	185g

#### FIELD TERMINAL

Field wiring	Recommended Field Terminal	Compatible Field Terminal
General purpose	8617-FT-NI	8619-FT-MT
	16/30 channel DI	44-pin MTA
Class 1, Div 2 or Zone 2 hazardous areas	8617-FT-NI	8619-FT-MT
	16/30 channel DI	44-pin MTA