

32-channel Sequence of Events



24V dc, non-isolated, module-powered

8127-DI-SE

- ◆ switch or proximity detector inputs
- ◆ captures events with ¼ ms resolution
- ◆ distributed architecture for accurate event recording
- ◆ line fault detection on all inputs
- ◆ power to all field inputs - simplifies field wiring
- ◆ hi-res time stamp for accurate event sequencing
- ◆ log event data, e.g. controller status & module alarms
- ◆ export data to PC for reporting or analysis
- ◆ 24V dc bussed field power required

MODULE SPECIFICATION

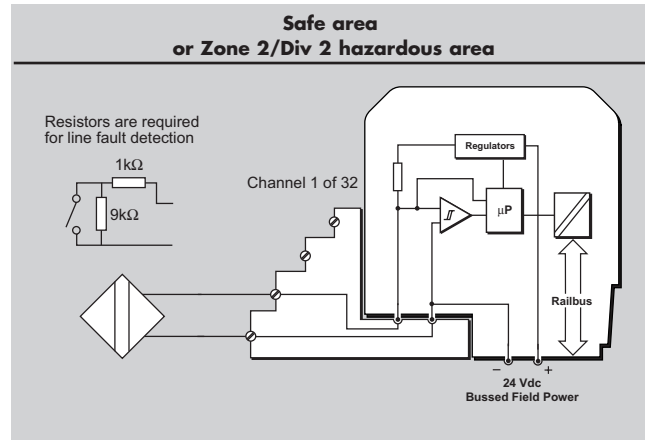
See also System Specification

INPUT

- Number of channels32
- OFF current< 1.2mA
- ON current> 2.1mA
- Short circuit current.....8.6mA (typ)
- Output resistance950Ω (typ)
- Open circuit output voltage.....8.2Vdc (typ)
- Line fault detection
 - Short Circuit.....< 100Ω
 - Open Circuit.....< 50μA
- Input voltage range without damage0 to +12V dc
- Isolation (channel to Railbus).....250V ac
- Input sampling rate (all 32 inputs).....8kHz
- Input pulse width250μs (min)
- DI counting frequency without loss.....500Hz (max)
- Applicable specificationNAMUR, DIN 19234

SOE SPECIFICATION

- Module event buffer480 events + 32 overflow
- Event recording peak rate (module).....64,000 events/sec
- Duration of peak rate.....7.5 ms (max.)
(for 32 SOE channels enabled)
- Event recording continuous rate
 - Module.....220 events/sec (min.)
 - Each of 32 inputs.....6.8 events/sec (min.)
- Excessive event threshold (for 32 inputs)...150 events/sec/ch.
(for each channel)
- SOE module time stamping resolution.....125 μs
- System time stamping resolution250 μs
- Simultaneous inputs, time stamping error
 - Within one module0.25 ms (max.)
 - Within one 8000 node.....1.0 ms (max.)
 - Between 8000 nodes.....5.0 ms (typ.)
 (Absolute accuracy will depend on network time reference in use)



CONFIGURABLE PARAMETERS

- SOE Loggingconfigurable per channel
- Input filter.....0 to 8.192secs in 250μs steps
- Pulse countingon/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)
 - $V_{oc} = 8.64V$; $I_{sc} = 18.5mA$; $C_a = 28\mu F$; $L_a = 23.6mH$

POWER SUPPLIES

- Railbus (12V) current< 50mA
- Bussed field power190mA (max) at 24V dc

MECHANICAL

- Module Key CodeB4
- Module width42mm
- Weight185g

FIELD TERMINAL

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

