



General Description:

The Switch/Proximity Detector Repeater type D1032 is a DIN Rail unit with two or four independent and isolated channels. The unit can be configured for contact or proximity detector, NO or NC and for NE or ND relay output.

Each channel enables a Safe Area load to be controlled by a switch, or a proximity detector, located in Hazardous Area.

D1032Q quad channel type has four independent input channels and actuates the corresponding output relay. Two actuation modes can be independently DIP switch configured on each input channel: NO input/NE relay or NO input/ND relay. Contact or proximity sensor and its connection line short or open circuit fault detection is also DIP switch configurable: fault detection can be enabled (in case of fault it de-energizes the corresponding output relay and turns the fault LED on) or disabled (in case of fault the corresponding output relay repeats the input line open or closed status as configured).

D1032D dual channel type has two input channels and four output relays; the unit has two DIP switch configurable operating modes:

Mode A) input channel actuates in parallel the two output relays

Relay actuation mode can be independently configured for each output in two modes: NO input/NE relay or NO input/ND relay.

Mode B) input channel actuates output relay A configurable in two modes as in mode A above. Output relay B operates as a fault output (in case of input fault, relay B actuates and the fault LED turns on while relay A repeats the input line as configured). Actuation can be DIP switch configured in two modes: No input fault/energized relay (it de-energizes in case of fault) or

No input fault/de-energized relay (it energizes in case of fault).

Function:

2 or 4 channels I.S. switch repeater for contact or EN60947-5-6 proximity. Provides 3 port isolation (input/output/supply). Line-fault detection, common to all input signals, available when using Power Bus enclosure.

SIL 2 according to IEC 61508

for Tproof = 3 / 7 years (10 / 20 % of total SIF).

• PFDavg (1 year) 2.65 E-04, SFF 81.34 %.

 Line fault detection with common signalling available when using Power Bus enclosure.

Three port isolation, Input/Output/Supply.EMC Compatibility to EN61000-6-2, EN61000-6-4.

• In-field programmability by DIP Switch.

 ATEX, IECEx, UL & C-UL, FM & FM-C, Russian and Ukrainian Certifications.

High Reliability, SMD components.High Density, four channels per unit.

Simplified installation using standard

DIN Rail and plug-in terminal blocks.

• 250 Vrms (Um) max. voltage allowed to the

instruments associated with the barrier.

Type Approval Certificate DNV and KR for

Input from Zone 0 (Zone 20), Division 1.

installation in Zone 2, Division 2.NO/NC contact/proximity Detector Input.

Four voltage free SPST Relay contact Output Signals.
Relay Output for fault detection on

dual channel version.

marine applications.

Signalling LEDs:

Power supply indication (green), output status (yellow), line fault (red). Field Configurability:

NO/NC input for contact/proximitor, NE/ND relay operation and fault detection enable/disable.

EMC:

Fully compliant with CE marking applicable requirements.

Front Panel and Features:

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Ordering Information:

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Power Bus e	nclosure		/B	

SIL 2 Switch/Proximity Detector Repeater Relay Output DIN-Rail Models D1032D, D1032Q

Supply: 24 Vdc nom (20 to 30 Vdc) reverse polarity protected,

Current consumption @ 24 V: 75 mA for 4 channels D1032Q,

Technical Data:

ripple within voltage limits ≤ 5 Vpp.

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Parameters Table:

Safety Description	Maximum External Parameters								
	Group Cenelec	Co/Ca (µF)	Lo/La (mH)	Lo/Ro (μΗ/Ω)					
Terminals 13-14, 15-16 9-10, 11-12									
Uo/Voc = 9.6 V	IIC	3.599	379	1530					
lo/lsc = 10 mA	IIB	25.999	1517	6150					
Po/Po = 24 mW	IIA	209.999	3035	12310					

NOTE for USA and Canada:

IIC equal to Gas Groups A, B, C, D, E, F and G IIB equal to Gas Groups C, D, E, F and G IIA equal to Gas Groups D, E, F and G

TIA equal to Gas Groups D, E, F and G

Image:



Function Diagram:

HAZARDOUS AREA ZONE 0 (ZONE 20) GROUP IIC, HAZARDOUS LOCATIONS CLASS I, DIVISION 1, GROUPS A, B, C, D, CLASS II, DIVISION 1, GROUPS E, F, G, CLASS III, DIVISION 1, CLASS I, ZONE 0, GROUP IIC

SAFE AREA, ZONE 2 GROUP IIC T4, NON HAZARDOUS LOCATIONS, CLASS I, DIVISION 2, GROUPS A, B, C, D T-Code T4, CLASS I, ZONE 2, GROUP IIC T4

