



INT-DI163-ISO*DC-R

16 channels - Isolated Discrete Input for dry contact or proximity detector powered by DC voltage

Description :

The INT-DI163-ISO*DC-R interface unit provides a galvanic isolation between a DC logic voltage and the 16 channels Discrete Input card of a Distributed Control System (DCS), or a Programmable Logic Controller (PLC).

There are three terminals available per channel that enables to connect either a 2, 3 or 4 wire proximity switch, or a dry contact.

The terminal TB2 allows the connection of two external isolated field power supplies in order to power the 16 proximity switches or the dry contacts. These are independently protected by a 5x20 fuse (0.5A).

The status of each power supply is indicated by a green LED.

The status of each channel is indicated by a yellow LED.

The connection to the Discrete Input card is done using a cable, with a female D-SUB 25 pin connector at one end, and labeled flying wires or a suitable connector matching with the Discrete Input card at the other end.

If a shielded cable is used (metal cover required), a screw marked "Shield" allows the cable shielding on the interface side.

Two input voltages are available in standard :

INT-DI163-ISO24DC-R : inputs powered by 24Vdc.

INT-DI163-ISO48DC-R : inputs powered by 48Vdc.



Product options :

Option **ST** : INT-DI163-ISO*DC-R-**ST**, Screw terminals for the process signals connection

Option **CCT** : INT-DI163-ISO*DC-R-**CCT**, Cage clamp terminals for the process signals connection

Option **VSH** : Conformal coating (Tropicalization)

* is the value of the DC input power supply. For a special value, please consult us

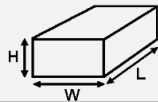
Technical specifications :

Dimensions :

Length : 142 mm

Width : 128 mm

Height : 65 mm



Weight :

290 g

Temperature range :

Operating : 0°C to 50°C

Storage : -10°C to 50°C

Humidity :

Up to 90% (no condensation)

Mounting :

Asymmetric or symmetric DIN rail

Shield connection :

1 x M3 screw

Conductor cross section :

TB1 : Inputs

ST : 26 to 14 AWG (0,14 to 1,5mm²)

CCT : 24 to 14 AWG (0,2 to 1,5mm²)

TB2 : External PSU

ST/CCT : 24 to 14 AWG (0,2 to 1,5mm²)

Insulation voltage :

1500 Vac between input (TB1) and output (J1)

Input's PSU protection :

0.5A 250V (5x20) F type fuse

Output specifications :

Maximum voltage : 55 Vdc

Maximum current : 15mA

Input specifications :

Input voltage range (Vdc) :

24 Vdc

48 Vdc

Input impedance (KΩ) :

20 to 28

40 to 56

Minimum ON state voltage (Vdc) :

3.9

8.2

Max current for OFF state (mA) :

10

20

Min current for ON state (mA) :

1

1

Max turn ON/OFF time (μs) :

2.5

2.5

Max frequency (KHz) :

60/50

60/50

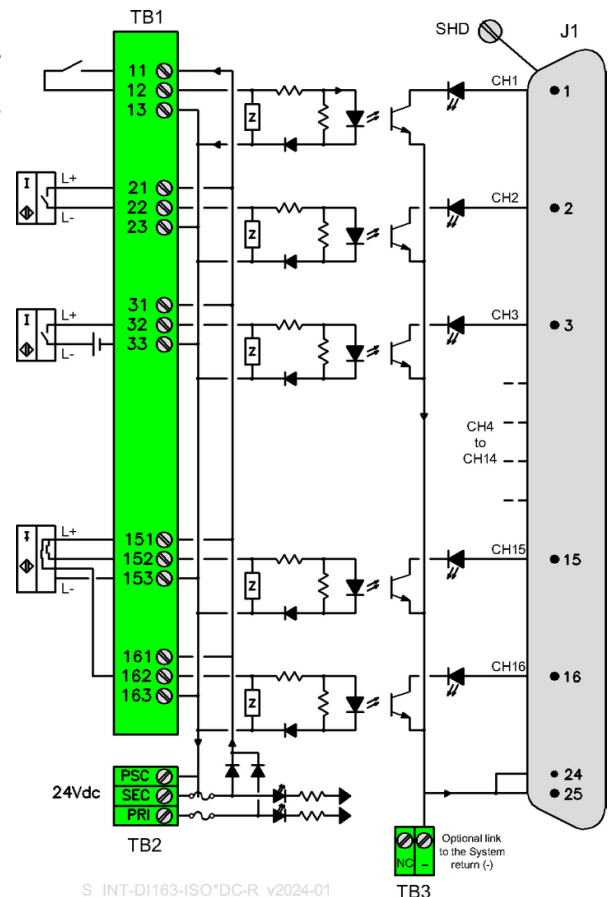
Max frequency (KHz) :

0.9

0.9

Connection to the DCS or to the PLC :

1 x D-Sub 25 pin male connector with UNC 4-40 female lock.



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