



■ INT-DI32-ISO*DC

32 channels - isolated Discrete Input for dry contact or proximity detector powered by DC voltage

Description :

The **INT-DI32-ISO*DC** interface unit allows to connect up to 32 Discrete Inputs to a Sourcing type Distributed Control System (DCS), or a Programmable Logic Controller (PLC).

It provides a galvanic isolation between a DC logic voltage and the Discrete Input card. Each channel is isolated from each other and from the power supply of the DCS or the PLC.

A yellow LED indicates the status of each channel.

The **INT-DI32-ISO*DC** interface unit can be connected to a Discrete Input card using a D-Sub 37pin male connector.

The connection to the new Discrete Input card is done using a cable (shielded or not), with a D-Sub 37pin female connector at one end, and labeled flying wires or a suitable connector matching with the new system Discrete Input card used at the other end.

If a shielded cable is used (metallic cover mandatory), a screw marked "Shield" allows to ground the unit.

Three input voltages are available in standard :

INT-DI32-ISO24DC : inputs powered by 24Vdc.

INT-DI32-ISO48DC : inputs powered by 48Vdc.

INT-DI32-ISO120DC : inputs powered by 120Vdc.

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

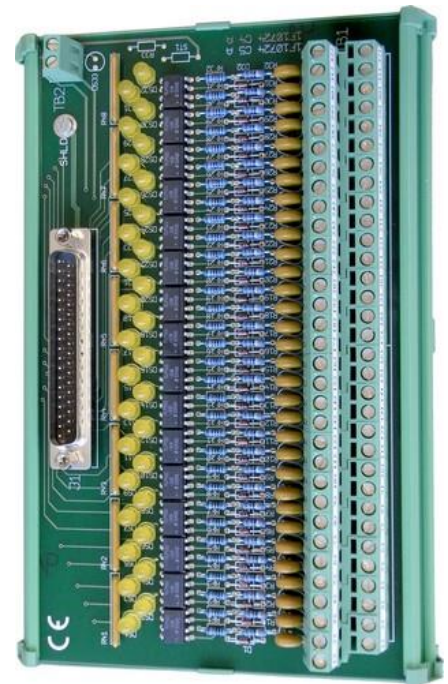
Product options :

Option **ST** : Screw terminals for the process signals connection.

Option **ST2.5** : Screw terminals with a capacity of 24 to 12AWG (0.22 to 2.5mm²) for the process signals connection.

Option **CCT** : Cage clamp terminals for the process signals connection.

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



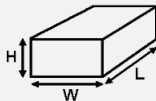
Technical specifications :

Dimensions :

Length : 186 mm

Width : 126 mm

Height : 60 mm



Weight :

365 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

Input specifications :

	24 Vdc	48 Vdc	120 Vdc
Input voltage range (Vdc)	20 to 28	40 to 56	100 to 140
Input impedance (KΩ)	3.9	8.2	33
Minimum ON state voltage (Vdc)	10	20	50
Max current for OFF state (mA)	1	1	0.6
Min current for ON state (mA)	2.5	2.5	2.5
Max turn ON/OFF time (μs)	60/50	60/50	60/50
Max frequency (KHz)	0.9	0.9	0.7

Connection to the DCS or to the PLC :

1 x D-Sub 37 pin male connector with UNC 4-40 female lock.

1 x screw terminal TB2 allows an optional connection to the 24Vdc power supply return (-) of the DCS or PLC.

Conductor cross section :

TB1 : Inputs

ST : 26 to 14 AWG (0,14 to 1,5mm²)

ST2.5 : 24 to 12 AWG (0,2 to 2,5mm²)

CCT : 24 to 14 AWG (0,2 to 1,5mm²)

TB2 : PSU common

ST : 26 to 14 AWG (0,14 to 1,5mm²)

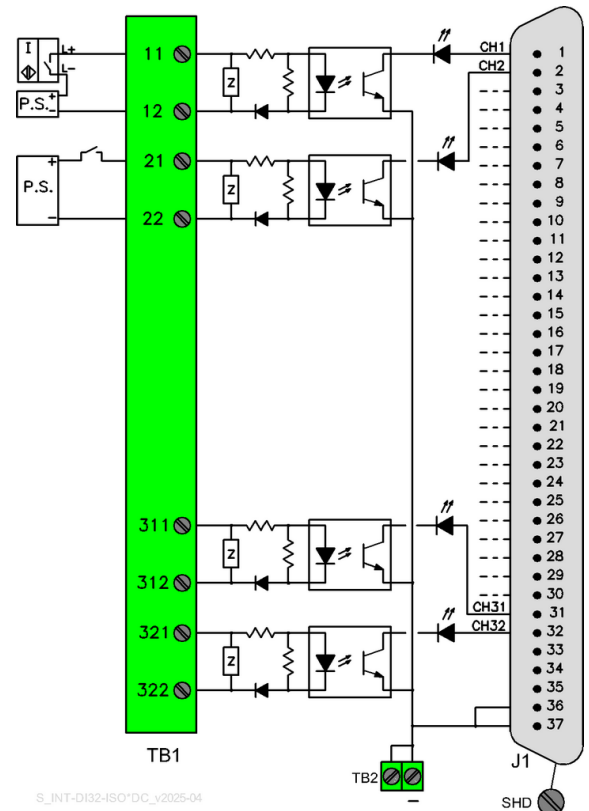
Insulation voltage :

1500 Vac between input and output, and between each input (if the external DC Power Supply is not the same).

Output specifications :

Maximum voltage: 55 Vdc

Maximum current: 15mA



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