

■ INT-DI323-ISO*DC-R Interface Unit

32 channels - isolated discrete input for dry contact or proximity detector powered by DC redundant P.S

Description :

The INT-DI323-ISO*DC interface unit provides a galvanic isolation between a DC logic voltage and the 32 channels discrete input card of a Digital control system or a programmable logic controller.

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

Two external isolated field power supplies can be connected to the terminal TB2 for redundancy, in order to power the 32 proximity switches or the dry contacts.

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

The INT-DI-323-ISO*DC interface unit, is connected to the DCS or the PLC D.I. card by a SUBD 37 pins male connector and a round cable shielded or not. If a shielded cable is used (with a metallic cover), a screw marked Shield allows to ground it.

Three input voltages are available in standard:

INT-DI323-ISO24DC : inputs powered by 24Vdc.

INT-DI323-ISO48DC : inputs powered by 48Vdc.

INT-DI323-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**: **INT-DI323-ISO*DC-ST** (Instruments connected using Screw Terminals)

Option **ST2.5**: **INT-DI323-ISO*DC-ST2.5** (Screw Terminals with capacity of 24AWG to 14 "0.22 to 2.5 mm²")

Option **CCT**: **INT-DI323-ISO*DC-CCT** (Instruments connected using Cage Clamp Terminals)

Technical specifications:

Dimensions:

Wide : 125 mm

Length : 240mm

Depth : 65mm

Weight:

400 g

Mounting:

Asymmetric or symmetric DIN rail

Signal wiring conductor section:

TB1, TB2 : ST or CCT: 26 to 16AWG (0.14 to 1.5mm²).

TB3 : ST (0.14 to 1.5mm²)

Output specifications:

Maximum voltage: 40 Vdc

Maximum current: 15mA

Input specifications:

	24 Vdc	48 Vdc	120 Vdc
Power Supplies fuse protection	1A (5x20)	1A (5x20)	1A (5x20)
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 allowable 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

One SUBD 37 pin male connector with UNC 4-40 female lock.

One screw terminal (TB3 -) allows an optional connection to the 24vdc power supply return (-) of the DCS.

One screw for shield connection

Temperature range:

Operating : -10°C to 60°C

Storage: -20°C to 60°C

Humidity:

Up to 90% (no condensation)

Insulation voltage:

1500vac between input (TB1) and output (SUBD37)

