

# ■ INT-DI323-ISO\*DC Interface Unit

32 channels - isolated discrete input for dry contact or proximity detector powered by DC voltage

## 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 .

An external isolated field power supply can be connected to the terminal TB2 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 mm<sup>2</sup>")

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

### Terminals conductor section:

**TB1, TB2**: ST or CCT 26 to 16AWG ( 0.14 to 1.5mm<sup>2</sup>).

**TB3**: 26 to 16AWG ( 0.14 to 1.5mm<sup>2</sup>).

### Output specifications:

Maximum voltage: 40 Vdc  
Maximum current: 15mA

### Input specifications:

	24 Vdc	48 Vdc	120 Vdc
Power Supply 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:

One SUBD 37 pin male connector with UNC 4-40 female lock.  
One screw terminal (TB3 -) allow 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)

