



## ■ INT-DI323

32 channels - discrete input for 2, 3 or 4-wire proximity switch, or dry contact

### Description :

The **INT-DI323** interface unit allows to connect up to 32 proximity switches or dry contacts to a Distributed Control System (DCS), or a Programmable Logic Controller (PLC). It is possible to connect 2, 3 or 4 wires proximity switches powered by 24Vdc.

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

The **INT-DI323** interface unit must be powered either by the same power supply than the DCS or the PLC card or by a separate power supply with the minus (-) connected to the minus of the system power supply. Use the removable connector TB2 to connect the 24Vdc power supply.

The connection to the Discrete Input card is done using a shielded (or not) cable, with a female SUBD 37 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 (metallic cover mandatory), a screw marked "Shield" allows to ground the unit.

### Product options :

- Option **ST**: INT-DI323-**ST**, Screw terminals for the process signals connection
- Option **ST2.5**: INT-DI323-**ST2.5**, Screw terminals with a capacity of 24 to 14AWG (0.2 to 2.5mm<sup>2</sup>) for the process signals connection
- Option **CCT**: INT-DI323-**CCT**, Cage clamp terminals for the process signals connection
- Option **VSH** : Tropicalization (conformal coating)

### Technical specifications:

#### Dimensions :

Length : 185mm  
Width : 125mm  
Height : 70mm

#### Weight :

350 g

#### Mounting :

Asymmetric or symmetric DIN rail

#### Terminal conductor section :

TB1 : Inputs

ST : 26 to 14 AWG (0,14 to 1,5mm<sup>2</sup>)

CCT : 24 to 14 AWG (0,2 to 1,5mm<sup>2</sup>)

TB2 : Ext. PSU

ST: 24 to 12 AWG (0,2 to 2,5mm<sup>2</sup>)

#### Connection to ground :

One M3 screw

#### Connection to the DCS or PLC :

1 x SUBD 37 pin male connector with UNC4-40 female lock.

#### Contacts Power Supply (TB2) :

Value: 24Vdc +/- 10%  
Max consumption: 340mA  
Fuse: 0.5A (5x20) quick action  
Protected against over voltage and reverse polarity

#### Input specifications :

Input impedance: 3.3 K $\Omega$   
ON state current: 7.3 mA  
Max OFF state current: 1.4 mA  
Min ON state current: 1.7mA  
Max frequency: 0.9 KHz  
Type of proximity switch: 2 wires, 3 wires (PNP) or 4 wires (PNP)

#### Humidity :

Up to 90% (no condensation)

#### Temperature range :

Operating: 0°C to 50°C  
Storage: -10°C to 50°C

