

# INT-DI16-ISO\*AC

16 channels - Isolated Discrete Input powered by AC voltage

## Description :

The **INT-DI16-ISO\*AC** interface unit provides a galvanic isolation between an AC logic voltage and the 16-channel Discrete Input card of a Distributed Control System (DCS), or a Programmable Logic Controller (PLC).

Each channel is isolated from each other and from the power supply of the DCS or the PLC.

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

The **INT-DI-16-ISO\*AC** interface unit, is connected to the DCS or the PLC D.I. card either via a SUBD 37 pins male connector (option SUBD) and a round shielded cable, or via a Terminal Block (TB2) and flying wires.

Three input voltages are available in standard:

**INT-DI16-ISO48AC** : inputs powered by 48Vac.

**INT-DI16-ISO110AC** : inputs powered by 110Vac.

**INT-DI16-ISO220AC** : inputs powered by 220Vac.

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

## Product options :

Option **ST**: INT-DI16-ISO\*AC-**ST**, Screw terminals for the communication with the PLC or the DCS and for the process signals connection

Option **CCT**: INT-DI16-ISO\*AC-**CCT**, Cage clamp terminals for the communication with the PLC or the DCS and for the process signals connection

Option **SUBD+ST** : INT-DI16-ISO\*AC-**SUBD-ST**, Communication with the PLC or the DCS via a SUBD connector and Screw terminals for the process signals connection

Option **SUBD+CCT** : INT-DI16-ISO\*AC-**SUBD-CCT**, Communication with the PLC or the DCS via a SUBD connector and Cage clamp terminals for the process signals connection

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



## Technical specifications :

Dimensions :		Output specifications :		
Length : 142mm		Maximum voltage: 55 Vdc		
Width : 128 mm		Maximum current allowed: 30mA		
Height : 65mm		<b>Signal wiring conductor section :</b>		
<b>Weight :</b>		ST : 26 to 14 AWG (0,14 to 1,5mm <sup>2</sup> )		
500 g		CCT : 24 to 12 AWG (0,2 to 2,5mm <sup>2</sup> )		
<b>Temperature range :</b>		<b>Insulation voltage :</b>		
Operating : -10°C to 60°C		2500Vdc between input and output		
Storage : -20°C to 60°C		750 Vdc between each input		
<b>Humidity :</b>		<b>Connection to the DCS or PLC :</b>		
Up to 90% (no condensation)		Standard model :		
<b>Mounting :</b>		ST or CCT terminal (TB2)		
Asymmetric or symmetric DIN rail		Option SUBD :		
<b>Connection to the SHIELD :</b>		1 x SUBD 37 pin male connector		
One screw for shield connection		with UNC 4-40 female lock		
<b>Input specifications :</b>		<b>48 Vac</b>	<b>110 Vac</b>	<b>220 Vac</b>
Max permanent input voltage (Vac)	75	140	255	
Max peak voltage input during 1mn (Vac)	100	180	280	
Input impedance (KΩ)	16	40	78	
OFF state voltage guarantee (Vac)	≤ 32	≤ 77	≤ 150	
ON state voltage guarantee (Vac)	≥ 36	≥ 87	≥ 170	
Min current for ON state (mA)	1.9	1.9	1.9	
Max current for OFF state (mA)	1.6	1.6	1.6	
Typical response time (ms)	100	100	100	

