INT-DO-8R-F Interface Unit

8 channels - isolated discrete output with electromechanical relay and fuse

Description :

The INT-DO-8R-F interface unit, allows to connect up to 8 discrete outputs to a discrete output card of a digital control system or a programmable logic controller.
The control signals are connected to the DCS or the PLC either via a SUBD15pins connector and a round cable, or via a HE10-10pins connector and a flat cable
Each control signal commands a 24Vdc relay in order to drive a motor, or a solenoid or other load.
Each relay is replaceable and has a 3 pole contact protected by a 5x20 fuse.
The status of each channel is indicated by a yellow LED.

Product options :

Option **STD**, **COR**: INT-DO-8R-F-STD or COR.
Option **STD** is interface unit with standard electromechanical relays and option **COR** is interface unit with electromechanical relays with gold contact.
Refer to page 2 to choose the right option.

Technical specifications:

Dimensions :
Wide : 80 mm
Length : 157mm
Depth : 65mm

Weight :
360 g

Mounting :
Asymmetric or symmetric DIN rail

Signal wiring conductor section:
Only Screw Terminals :
24 to 12AWG (0.14 to 2.5mm²)

Connection to the DCS or PLC: (using the SUBD connector)
1 x SUBD 15 pin male connector with UNC 4-40 female lock.

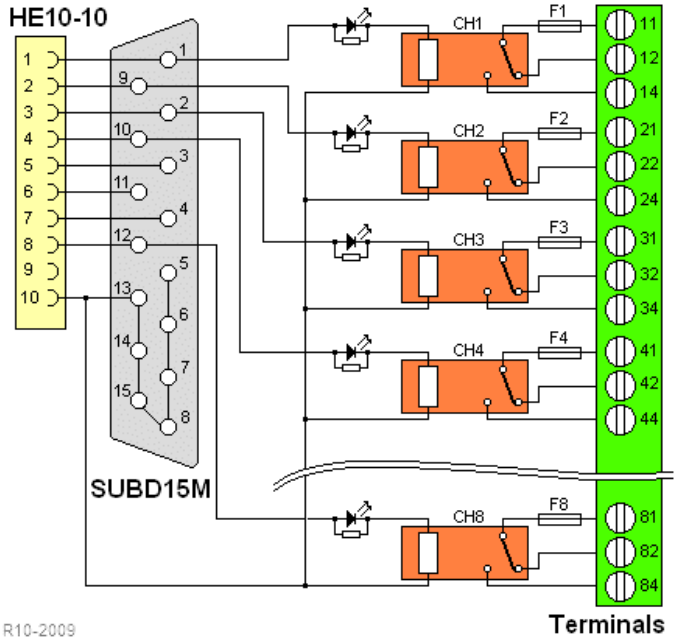
Connection to the DCS or PLC: (using the HE10 connector)
1 x HE10-10 pin male connector with locks for female connector and central polarization and strain relief.

Fuse protection :
5A (5x20) time lag fuse
(250V / 35A)

Insulation Voltage
1500 vac between input (control signal) and output (contacts), and 1000 vac between NO and NC terminals.

Humidity:
Up to 90% (no condensation)

Temperature range:
Operating: -10°C to 60°C
Storage: -20°C to 60°C



RELAY TO BE PLUGGED ON THE INT-DO-8R F INTERFACE UNIT

TYPE	ELECTROMECHANIC RELAYS	ELECTROMECHANIC RELAYS
FIRELEC Reference	**REL024-STD**	**REL024-COR**
General specifications:		
Mechanical expected life AC/DC	$30x10^6$ Cycles	$30x10^8$. cycles
Electric expected life at full load	$150x10^3$. Cycles	$150x10^3$ Cycle
Operating time / Release time / Debound	7 ms / 8 ms / 2 ms	9ms / 8ms / 2ms
Break-down voltage		
Between Coil and Contact	5000Vac	4000Vac
Between Open contact	1000Vac	1000Vac
Ambient temperature	-40°C à 70°C	-40°C à 70°C
Initial Insulation resistance at 500V	>1000 Mohms	>1000Mohms
Protection category:	RT II	RT II
Size :	W:12.7mm, D: 29mm, H:15,7 mm	W:12.6mm, D:29mm, H:25.5mm
Coil characteristics :		
Nominal voltage	24Vdc	24Vdc
Voltage Operating	17 – 30 Vdc	17 – 30 Vdc
Pick up voltage	16.8 Vdc	16.8Vdc
Drop out voltage	2.4Vdc	2.4Vdc
Nominal operating current	16,7 mA	21.8mA
Coil resistance	1440 ohms +/-15%	1100 ohms +/- 15%
Nominal power	0.4W	0.5W
Contacts characteristics		
Arrangement	3 pole contact	3 pole contact
Nominal voltage	250Vac	250vac
Nominal current	12A	8A
Nominal switching capacity (resistive load)	at 230Vac (3000 VA)	at 230Vac (2000VA)
Nominal switching capacity 30/110/220 Vdc	12A/0.3A/0.12A	8A/0.2A/0.10A
Mini switching load	300mW/5V/10mA	300mW/5V/5mA
Contact material	AgNi 90/10	AgNi 0.15 Fl.or AgCdo