

■ FC508 Interface Unit

8 channels - discrete output with relay and fuse. Allow to insert a safety contact in the output loop

Description :

Control signal input connection:

Depending on the model, the control signal of each relay is connected to the FC508 using Screw Terminals TB4 (model FC508-1) or via a SUBD25 male connector J1 (model FC508-2).

Load connection (TB1):

Using a group of four Screw Terminals per channel. Two terminals are dedicated to the load and two terminals allow inserting a safety contact in the output loop. It is also possible to let the load only controlled by the safety contact. In that case, a jumper "ST3" must be inserted.

Each group of four terminals is labelled that allows the user to indicate the tag of the instruments controlled. A blue terminal per channel allows testing the load without changing the status of the relay.

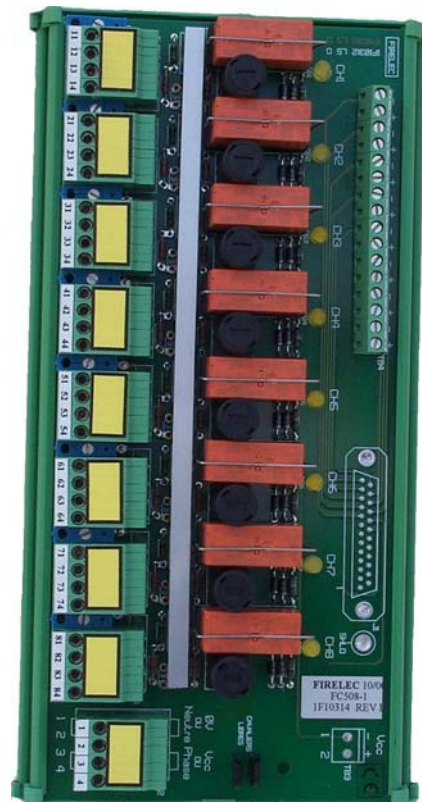
Contact Power Supply connection (TB2):

Using four Screw Terminals with the possibility of powering other interface units as a daisy chain.

Product options :

FC508-1: control signal connection using Screw Terminals

FC508-2: control signal connection using SUBD25 male connector



Technical specifications:

Dimensions :

Wide : 125 mm
Length : 240mm
Depth : 65mm

Weight :

500 g

Mounting :

Asymmetric or symmetric DIN

Signal wiring conductor

Screw Terminals(TB2):
24 to 12AWG (0.14 to 1.5mm²)

Connection to the DCS:

FC508-1
Screw Terminals (TB4).
Section 24 to 12AWG
(0.14 to 1.5mm²)

Connection to the DCS:

FC508-2

1 x SUBD 25 pin male connector with UNC female lock.

Fuse protection :

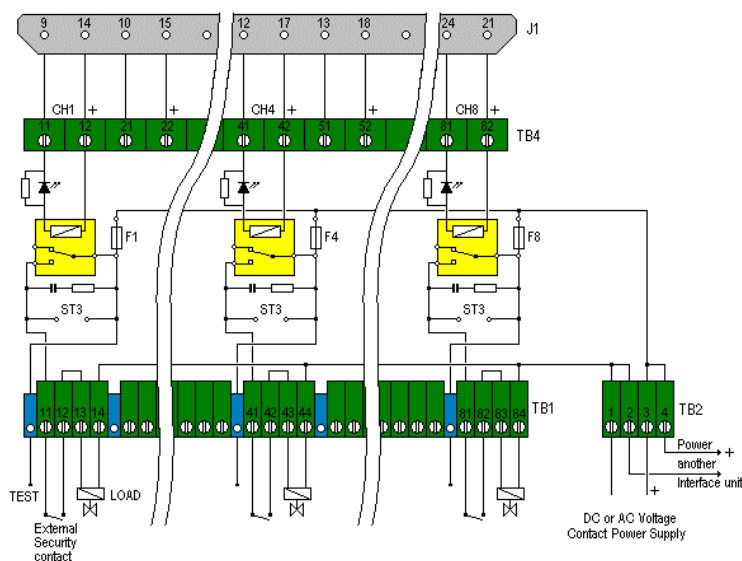
2A (5x20) time lag fuse (250V / 35A)

Humidity:

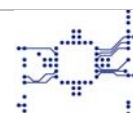
Up to 90% (no condensation)

Temperature range:

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



R10-2009



RELAY TO BE PLUGGED ON THE FC508 INTERFACE UNIT

TYPE	ELECTROMECHANIC RELAYS	ELECTROMECHANIC RELAYS
FIRELEC Reference	REL024-STD	REL024-COR
<u>General specifications:</u>		
Mechanical expected life AC/DC	30x10 ⁶ Cycles	30x10 ⁶ . 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
<u>Coil characteristics :</u>		
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
<u>Contacts characteristics</u>		
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

