FC508

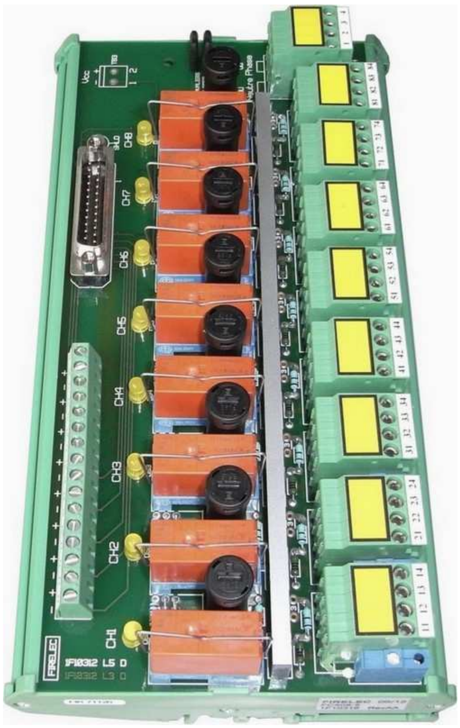
8 channels - Discrete Output with relay and fuse. Allow to insert a safety contact in the output loop

Description :

Control signal input connection (TB4 or J1) :
Depending on the model, the control signal of each relay is connected to the FC508 using screw Terminals TB4 or SUBD25 male connector J1 (check product options section).

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.

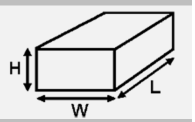


Product options :

FC508-**1**: control signal connection using Screw Terminals
FC508-**2**: control signal connection using SUBD25 male connector
FC508-**5**: control signal connection using Screw Terminals or SUBD25 male connector
Option **VSH** : Conformal coating (Tropicalization)

Technical specifications :

Dimensions :
Length : 240 mm
Width : 125 mm
Height : 65 mm



Weight :
600 g

Temperature range :
Operating : 0°C to 50°C
Storage : -20°C to 60°C

Humidity :
Up to 90% (no condensation)

Mounting :
Asymmetric or symmetric DIN rail

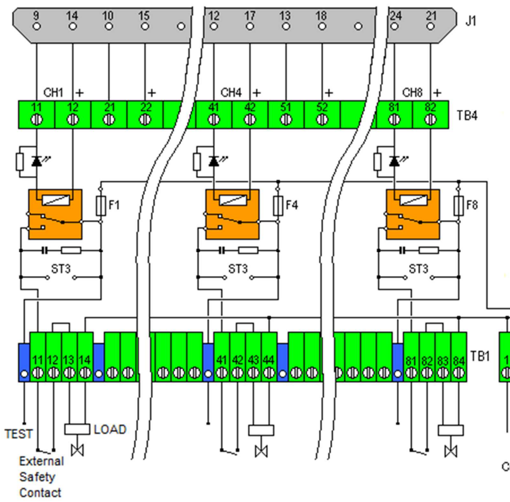
Conductor cross section :
TB1 : Outputs
24 to 12 AWG (0,2 to 2,5mm²)
TB2 : Contact Power Supply
24 to 12 AWG (0,2 to 2,5mm²)

Fuse protection :
Outputs : 1 time delay fuse 2A 250Vca (5x20) per channel

Max current allowed :
16A (from TB2)

Insulation voltage :
1500 Vac between input (control signal) and output (contacts), and 1000 Vac between NO and NC terminals

Connection to the DCS or to the PLC :
FC508-1 and FC508-5 :
Screw terminal (TB4) 24 to 12 AWG (0,2 to 2,5mm²)
FC508-2 and FC508-5 :
1 x Sub-D 25 pin male connector with UNC 4-40 female lock.



Channel		J1	TB4
1	+	14	12
	-	9	11
2	+	15	22
	-	10	21
3	+	16	32
	-	11	31
4	+	17	42
	-	12	41
5	+	18	52
	-	13	51
6	+	19	62
	-	22	61
7	+	20	72
	-	23	71
8	+	21	82
	-	24	81

S_FC508_v2015_04

TYPE	**ELECTROMECHANICAL RELAY**

REFERENCE	**REL24-1RT-945143**

General characteristics	
Mechanical expected life	$30x10^6$ cycles
Expected life at max load	$150x10^3$ cycles
Operate time / release time / debound	8ms / 6ms / 4ms
Coil / contacts insulation	5000Vac
Dielectric strength between open contacts	1000Vac
Ambient temperature	-40°C to 85°C
Initial insulation resistance	>1000 MΩ
Environmental protection	RT II
Dimensions	L : 29mm / W : 12.7mm / H : 16,2mm
Weight	14g

Coil characteristics :	
Nominal voltage	24Vcc
Voltage operating range	17 – 30Vdc
Holding voltage	17,8Vdc
Must drop-out voltage	2,4Vdc
Nominal operating current	16,7mA
Coil resistance	1440 ohms +/-15%
Nominal power	0,4W (24Vdc)

Contacts characteristics :	
Arrangement	3 pole contact
Contact protection	RC filter : R=100 ohms and C=22nF
Rated current	12A (limited by a 2A fuse)
Rated voltage / Max switching voltage	250 Vac / 400Vac
Nominal switching capacity 30 / 110 / 220 Vdc	12A / 0.3A / 0.12A
Minimum load	300mW (5Vdc / 10mA)
Contact material	AgNi 90/10