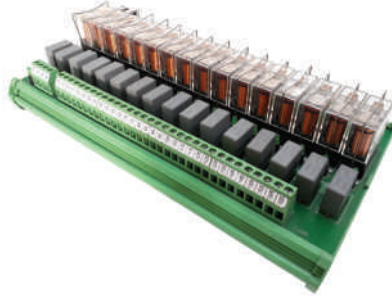


Modular Wiring Solutions

Digital Input Field Interface Modules for 110VAC Field Interrogation

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Voltage	110VAC
Configuration	Single Ended/ 2 Wire (user to specify)
Protection	Short Circuit/RC
Input Status LED/Channel	Green LED
Fuse Fail LED/Channel	Red LED
Termination	Screw Terminals

System Output Data

Output Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Configuration	Low Going/High Going (User to specify)
Termination	25/37 Pin D-Sub Connector

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Auxiliary Power Supply

Field Power Supply	110VAC
System Power Supply	24VDC

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤ 10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

Relay Data

Relay Make	Omron, G2R Series or Equivalent
Contact Type	1 Change Over
Approvals	

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120°C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix For 110VAC, Digital Input Field Interface Module (Non-redundant)

Channel Density						16
Protection	Fuse, 100mA	-	√	√	√	√
	Fuse, LED	-	√	√	-	√
Isolation	Relay	√	√	√	-	√
	Opto-Isolation	-	-	-	√	-
Configuration	High going	√	√	√	√	√
	Low going	-	-	-	-	-
Current Consumption	160mA		400mA		200mA	160mA
Dimensions in mm (L X W)	277X90		274X126		330X126	347X126
Part no.	UL110A16-DI-CD25	UL110A16-DIFI-CD25	UL110A16DIFI-INT-RDG-C-D25-SNB	UL110A16DI-ISO-CON-D25	UL110A16DI-AT-RED-D25-2C	
Ordering Code	085010200158	085010200159	085010200160	091020100048	085020200032	

Note: In Digital Input Field Interface module wide range of permutations & combinations are available.

- Digital Input Field Interface Module with Single ended field wiring configuration are available on request.
- DI FIM with active isolation (Relay/Opto-Isolation) are available with fuse & fuse blown LED Indication in field input of each channel