

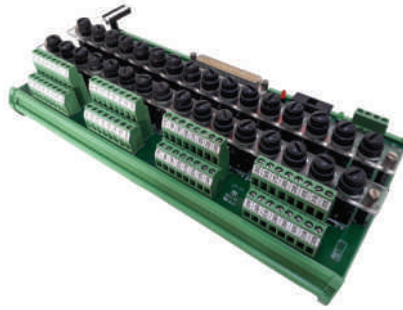


Modular Wiring Solutions

Digital Input Field Interface Modules for 24VDC 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	24VDC
Configuration	Single Ended/ 2-wire (user to specify)
Protection	Short Circuit
Input Status LED/Channel	Green LED if applicable
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	24VDC
System Power supply	24VDC

System Side Termination

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

Relay Data

Relay Make	Omron, G2RL 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 24VDC, Digital Input Field Interface Module (Non-redundant)

Channel Density		8		16		32
Protection	Fuse, 100mA	✓	✓	-	✓	✓
	Fuse, LED	✓	✓	-	✓	✓
	Relay	-	-	✓	✓	-
Isolation	Opto-Isolation	-	-	-	-	-
	High going	✓	✓	✓	✓	✓
Configuration	Low going	-	-	-	-	-
	Current Consumption	210mA	10mA	410mA	410mA	320mA
Dimensions in mm(L X W)		107X126	141X126	232X90	253X126	262.5x126
Part No.		UL08DIFI-D15-VF-CMPT	UL16DIFI-D25-VF-CMPT	UL24D16DI-C-D25-RDG	UL16DIFI-C-D25-V1-XOR	UL32DIFI-D37-VF-CMP
Ordering Code		085010100006	085010200007	210316110009800	085010200022	085010300001

Selection Matrix For 24VDC, Digital Input Field Interface Module (Redundant)

Channel Density		8		16		32
Protection	Fuse, 100mA	✓	✓	✓	-	✓
	Fuse, LED	-	✓	✓	-	✓
	Relay	-	-	-	✓	-
Isolation	Opto-Isolation	-	-	-	-	-
	High going	✓	✓	✓	✓	✓
Configuration	Low going	-	✓	-	-	-
	Current Consumption	-	5mA	15mA	410mA	180mA
Dimensions in mm(L X W)		110X126	172X126	170X126	269X90	312x126
Part No.		UL08DIF-RED-D15	UL16DIFI-RED-D25-VF-CMPT-SK	UL16DIFI-RED-D25-VF-CMPT	UL24D16DI-RED-2C-D25	UL32DIFI-RED-D37-VF-CMPT
Ordering Code		085010100012	085020200031	085020200005	085020200018	085020300001

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