

Modular Wiring Solutions

Digital Input Field Termination Assembly with 24VDC Field Interrogation for differential type DI module

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	Differential
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.

Field Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

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 Digital Input Field Termination Assembly, 24VDC field interrogation (Non-redundant)

Channel Density			16	
Protection	Fuse, 100mA	√	√	√
	Fuse, LED	√	-	√
Isolation	Relay	-	√	√
	Opto-Isolation	-	-	-
Current Consumption		20mA	410mA	410mA
Dimensions in mm (L X W)		141X126	242X126	264X126
Part No.		UL16DIFI-FTA-D37-VF-CMPT-V2	UL16DIF-FTA-C-D37-XOR	UL24D16DIFI-FTA-C-D37
Ordering Code		085010200108	085010200047	085010200045

Selection Matrix for Digital Input Field Termination Assembly, 24VDC field interrogation (Redundant)

Channel Density			16	
Protection	Fuse, 100mA	√	-	-
	Fuse, LED	√	-	-
Isolation	Relay	-	-	√
	Opto-Isolation	-	-	-
Current Consumption		-	-	26mA
Dimensions in mm(L X W)		182 X126		257 X126
Part No.		UL16DIFI-RED-FTA-D37		UL16DIFTA2CO-2D37
Ordering Code		085020200016		085010200157

Note: In Digital Input Field Termination Assembly wide range of permutations & combinations are available.

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