

Modular Wiring Solutions

Analog Input Field Interface Modules with 2-Wire & 4-wire Configuration

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- 2Wire /4 Wire user selectable
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Level	4-20mA
Field Wiring	2-Wire /4-Wire (user selectable)
Protection	Short Circuit
Fuse Rating/Channel	100mA
Fuse Fail LED/Channel	Red LED in 2-Wire Configuration
Isolation (Refer selection matrix)	3 way Isolation (Optical) Channel to Channel, Input to Output Power Supply to Field Channel
Termination	Screw Terminals

System Output Data

Output Signal Level	4-20mA/1-5V (user to specify)
Signal Configuration	Single Ended/Differential Type (user to specify)
Signal Mode	Non-Redundant/ Redundant
Termination	25 Pin D-Sub Connector

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

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A
Wire Cross section	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.

General Data

Ambient temperature	0°C to +60°C
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Auxiliary Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

Selection Matrix for Analog Input Field Interface Module (Non-Redundant)

Channel Density		4	8	16
Protection	Fuse, 100mA	✓	✓	✓
	Fuse, LED	✓	✓	✓
	Fuse in 4-Wire	-	✓	✓
Signal Output (1-5V)		-	-	-
Galvanic Isolation		-	-	✓
Current Consumption		15mA	10mA	200mA
Dimensions in mm (L X W)		82X126MM	96X126MM	182X126MM
Part No.		UL04AI-2WFI-4WF-D15-V-SPD	UL08AI-2WFI-4WF-D25-VF-CMPT	UL08AI-2W4W-ISO-D25-4W.
Ordering Code		085050100001	085050200001	091020100022
				UL16AI-2WFI-4WF-D37-VF-CMPT
				085050400001

Selection Matrix For Analog Input Field Interface Module (Redundant)

Channel Density		8	16
Protection	Fuse, 100mA	✓	✓
	Fuse, LED	✓	-
	Fuse in 4-Wire	✓	-
Signal Output (1-5V)		-	-
Galvanic Isolation		-	✓
Current Consumption		10mA	960mA
Dimensions in mm (L X W)		152X90MM	110x126
Part No.		UL08AI-RED-D25-SPD-I-I-72-VF	UL08AI-RED-2W4W-ISO-D25
Ordering Code		085060100002	091020100034
			UL16AI-4W-ISO-RED-D37-4W
			091020100011
			UL16AI-RED-D37-SPD-I-I-VF-6.8V
			085060200001

Note: Analog Input field interface module with Isolation is having inbuilt resettable fuse protection and current limiting.