



## M3948

8 analog inputs

0~10 / 0~5 / -10~10 / -5~5 VDC

16 bit resolution

Differential (non-isolated between channels)

Hotswap

18pt removable terminal block (RTB18C)

## Facts

### General description

Article number	100-8244
Warranty	Up to 2 years
Article status	Active
Shock operating	IEC 60068-2-27 (15G)
Vibration resistance	Sine vibration (based on IEC 60068-2-6), DNVGL-CG-0339 (Vibration Class B, 4G)
Industrial emissions	EN 61000-6-4/2019
Industrial immunity	EN 61000-6-2 : 2019
Installation position	Horizontal, Vertical
Power dissipation	Max. 200 mA @ 5 VDC
Isolation	I/O to Logic : DC-DC Isolation, Field power : Not Connected
Field power	Not used Field power bypass to next expansion module
Weight	72g
Module size	12 x 110 x 75 mm

## Certifications

General	CE, FCC, UL, cUL
Hazardous	UL C1D2, ATEX (Zone2)
Marine	DNV GL
Safety	UL508, CAN/CSA C22.2 No.142-M1987

## Environmental

Mounting	35mm DIN rail
Operating temperature	-25 ~ 60°C
Storage temperature	-40 ~ 85°C
UL temperature	-25 ~ 60°C
Relative humidity	5 ~ 90% non-condensing

## Analog input module specifications

Calibration	Not required
Common type	2 Common
Conversion time	<2.5 msec / All channel
Data format	16 bits Integer (2' compliment)
Indicators	1 Green M-Bus status LED
Input current range	0~10 VDC, 0~5 VDC, -10~10 VDC, -5~5 VDC
Input impedance	667 kΩ
Inputs per module	8 Channels Differential, Non-isolated Between Channels
Module error	±0.1% Full Scale @ 25°C, ±0.3% Full Scale @ -25°C~60°C
Resolution in ranges	16 bit(Include Sign), 15 bits : 0.31 mV/Bit (0~10 V), 15 bits : 0.15 mV/Bit (0~5 V), 15bit (Include Sign) 15 bits : 0.61 mV/Bit (-10~10 V), 15 bits : 0.31 mV/Bit (-5~5 V)

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