



M3938

8 analog inputs

0~20/4~20/-20~-20 mA

16 bit resolution

Differential (non-isolated between channels)

Hotswap

18pt removable terminal block (RTB18C)

Facts

General description

Article number	100-8242
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	Horisontal, 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	<2.4 msec / All channel
Data format	16 bits Integer (2' compliment)
Indicators	1 Green M-Bus status LED
Input current range	0~20 mA, 4~20 mA, -20~20 mA
Input impedance	100 Ω
Inputs per module	8 Channels Differential, Non-isolated Between Channels
Module error	$\pm 0.1\%$ Full Scale @ 25°C, $\pm 0.3\%$ Full Scale @ -25°C~60°C
Resolution in ranges	16 bit(Include Sign), 15 bits : 0.61 uA/Bit (0~20 mA), 15 bits : 0.49 uA/Bit (4~20 mA), 15bit (Include Sign), 15 bits : 1.22 uA/Bit (-20~20 mA)

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