

LSAIMO2-1-R AI module

LS communication Transmitter inputs : 8 4 to 20 mA

Summary



*Number of inputs

- ∗Input range
- * Absolute precision
- $m{\star}$ Including temperature drift
- *Module ambient temperature
- \star Insulation method
- *Supported FXtoLS adapter

- : 8 / Transmitter input, DC 24 V distributed type (Channel individual isolation)
- : 4 to 20 mA
- : ±0.1% FS @25°C
- : Less than $\pm 100 \text{ ppm/°C}$
- : 0 to 55°C
- : Transformer insulation
- : LSRLTS-AI01



This module is dedicated to compact retrofit terminal blocks. Dedicated lock pins are attached to the bottom.



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ustries. CGS-S5113-E-00 (2024. 10. 31) SL : 1 ECT : N/A



LSAIM02-1-R AI module

LS communication Transmitter inputs : 8 4 to 20 mA

Specifications

ITEM		SPECIFICATION
	Number of channels	8 (Transmitter input, DC 24 V distributed type ^(*) , Individual isolation)
Input	Range	4 to 20 mA (Full Scale)
	Resolution	16 bits
Absolute precision	@25°C	±0.1% FS
Temperature drift	@-5 to 60°C	Less than $\pm 100 \text{ ppm/°C}$ (relative to full-scale)
CMRR		100 dB or more attenuation
NMRR		About 2 dB attenuation
		(When the first-order lag filter is set to 30 ms or more, attenuation by 20 dB or more)
Data refresh cycle		5 ms /All channels
Input filter		Software digital filter (Channel individual)
Dielectric strength		AC 500 V input terminal – between PE
		Between input channels
Communication with IOA	Communicaton method	LVDS
	Communication speed	100 Mbps
HART communication compliant Between actuators Communication specification	Communicaton method	HART communication (superimposed on 4 to 20 mA signal)
	Communication speed	1200 bps
Self-diagnostic functions		Clock check (FPGA-MCU for diagnosis, MCU for diagnosis -FPGA) Heartbeat check (FPGA-MCU, FPGA-MCU for diagnosis, MCU for diagnosis -FPGA) CRC check (FPGA) Al communication error check Tuning check
Detective		ADC abnormal check
When disconnected		I/O signal range check (Overrange, Underrange) Detect underrange
when disconnected		Overvoltage protection
Protection	(Power supply Protection)	Overcurrent protection
Indicator	Display LED	4: RUN (Run)/STS (Status)/NSA (Network status A)/NSB (Network status B)
Insulation method		Transformer insulation
Hot swap		Possible
Power supply		DC 24 V \pm 20% (The voltage supplied from the backplane)
Environmental conditions	Module ambient	(Operating) 0 to 55°C
	temperature	(Storage) -40 to 85°C
	Module ambient humidity	(Operating / Storage) Less than 95% RH (No condensation)
Vibration		3.5 mm @5 to 8.4 Hz
		1 G @8.4 to 150 Hz
Shock		15 G 11 ms
Current consumption		356 mA
Weight		0.13 kg
Dimensions		62 mm (D) x 94 mm (H) x 46 mm (W) (Except projection)
Standard/Directive		EN 61131-2:2007, RoHS

* The maximum voltage between terminals is 33 V when there is no load (disconnection).

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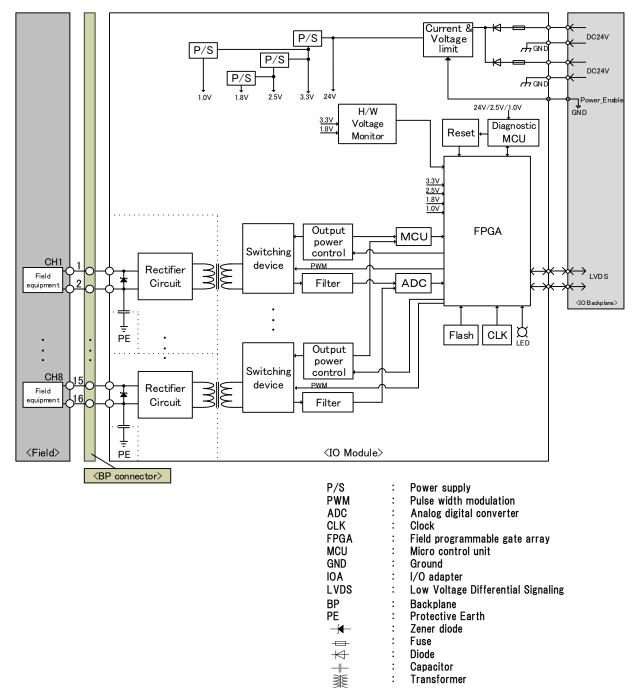
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■Block diagram



When using, please read the instruction manual attached to the product carefully and use it properly.

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