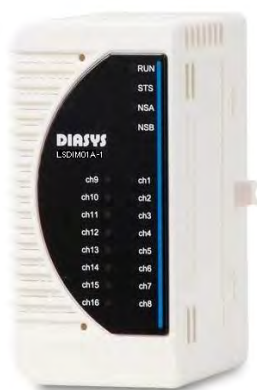


LSDIMO1A-1 DI module

LS communication Digital inputs : 16 1count/pulse

■ Summary



- * Number of inputs : 16 (16 ch common isolation)
- * Module ambient temperature : -5 to 60°C
- * Isolation : Digital isolation
Transformer insulation
- * Count : 1Count/pulse

LSDIMO1A-1 DI module

LS communication Digital inputs : 16 1count/pulse

■ Specifications

ITEM			SPECIFICATION
Input	Number of channels		16 (16 ch common isolation)
	Range	ON current	2 mA or more *Selectable power for sense current: +24 V/-24 V/+48 V/-48 V
		OFFcurrent	1.0 mA or less
		When disconnected	When disconnection detection function is set: 0.5 mA or less
Data refresh cycle			0.3 ms/All channels
Input filter			Software digital filter (Channel individual)
Dielectric strength			AC 1500 V Between input terminal and PE
Communication with IOA	Communicaton method		LVDS
	Communication speed		100 Mbps
Self-diagnostic functions			Power voltage check (24 V, 3.3 V, 2.5 V, 1.8 V, 1.0 V, VIO) 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) Sense voltage/current check (MCU) MCU power check (MCU)
Event DI function(EDI)			Event DI module: 16 Event signal input: Settable by software (EMS) Time resolution: 1 msec
Pulse input function(PI)			Pulse input module: 16 Input pulse rate: 0 to 500 Hz (Both ON, OFF times shall be 0.5 msec or longer.) Count: OFF → ON (1count/pulse)
Detective			Disconnection detection
Protection	IO circuit Protection		Overvoltage protection
	Power supply Protection		Overcurrent protection
Indicator	Display LED		4: RUN(Run) / STS(Status) / NSA(Network status A) / NSB(Network status B)
	Channel status LED		16: Ch 1 to Ch 16
Insulation method			Digital isolator (Transformer insulation)
Hot swap			Possible
Power supply			DC 24 V ±20% (The voltage supplied from the backplane)
Environmental conditions	Module ambient temperature		(Operating) -5 to 60°C (Storage) -40 to 85°C
	Module ambient humidity		(Operating / Storage) 10 to 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
Rated Current			251 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

About compliant module type

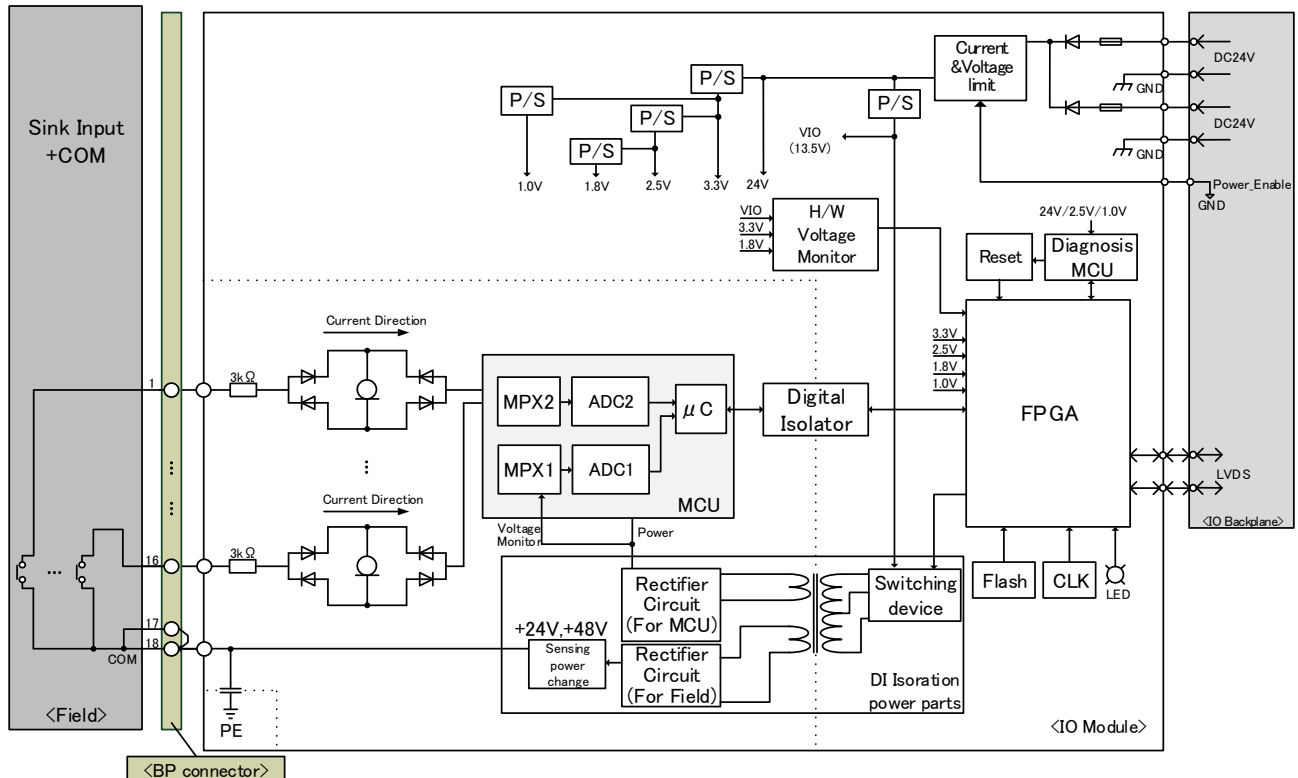
For compliant backplanes of this product, please refer to "Compliant backplane list (CGS-S9901-E-XX)".

For compliant accessory connectors of this product, please refer to "Compliant accessory connector list (CGS-S9902-E-XX)".

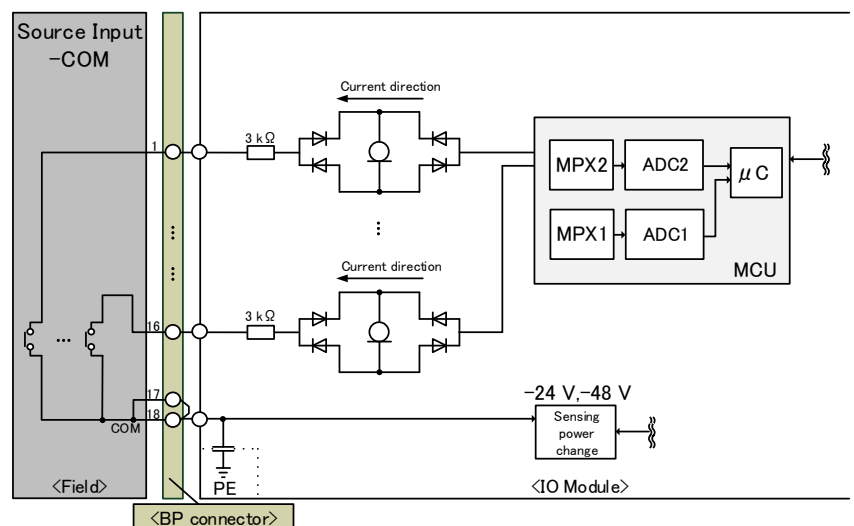
LSDIMO1A-1 DI module

LS communication Digital inputs : 16 1count/pulse

Block diagram



- P/S : Power supply
 MPX : Multiplexer
 ADC : Analog digital converter
 μC : Micro controller
 CLK : Clock
 FPGA : Field programmable gate array
 LED : Light emitting diode
 MCU : Micro control unit
 GND : Ground
 COM : Common
 IOA : I/O adapter
 LVDS : Low Voltage Differential Signaling
 EMS : Engineering Management System
 BP : Backplane
 PE : Protective Earth
 : Resistor
 : Fuse
 : Diode
 : Capacitor
 : Switch
 : Transformer
 : Constant current circuit



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

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