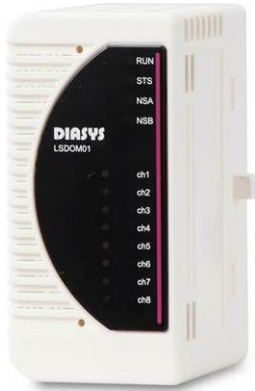


# LSDOM01 DO module

LS communication Digital outputs : 8

## ■ Summary



- \* Number of outputs : 8 (Channel individual isolation)
- \* Contact : Dry / A contact (Normally Open)
- \* Contact method : Open drain
- \* Module ambient temperature : -5 to 60°C
- \* Insulation method : Transformer insulation

# LSDOM01 DO module

LS communication Digital outputs : 8

## ■ Specifications

ITEM		SPECIFICATION
Output	Number of channels	8 (Channel individual isolation)
	Contact	Dry / A contact (Normally Open)
	Contact on resistance	Less than 3 Ω
	Max rating contact voltage	DC 300 V/AC 264 V
	Max contact current	Continuous 0.3 A
	Data refresh cycle	ON → OFF : Less than 1 ms OFF → ON : Less than 1 ms
Operation cycle usable in DPS		5 msec or more
Dielectric strength		AC 1500 V Between output terminal and PE Between output channels
Communication with IOA	Communication method	LVDS
	Communication speed	100 Mbps
Self-diagnostic functions		Power voltage check (24 V, 3.3 V, 1.2 V) Clock abnormal check (FPGA-MCU for diagnosis, MCU for diagnosis -FPGA) Heartbeat check (FPGA-MCU for diagnosis, MCU for diagnosis -FPGA) CRC check (FPGA)
Protection	(Power supply Protection)	Overvoltage protection Overcurrent protection
Indicator	Display LED	4: RUN (Run)/STS (Status)/NSA (Network status A)/NSB (Network status B)
	Channel status LED	8: Ch 1 to Ch 8
Insulation method		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 or less (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		86 mA
Weight		0.10 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

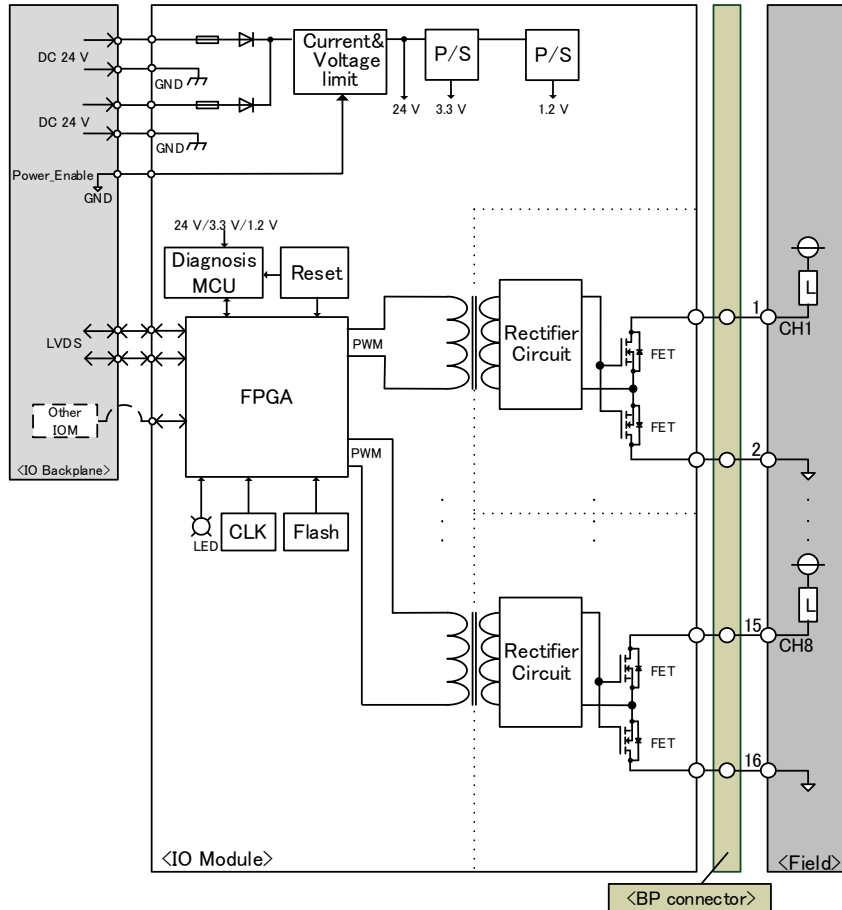
For compliant modules of this product, please refer to "Compliant backplane list (CGS-S9901-E-XX)".






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

# LSDOM01 DO module

LS communication Digital outputs : 8

## Block diagram



- |   |   |                                    |
|---|---|------------------------------------|
| P/S   | : | Power supply                       |
| PWM   | : | Pulse width modulation             |
| FET   | : | Field effect transistor            |
| CLK   | : | Clock                              |
| FPGA  | : | Field programmable gate array      |
| LED   | : | Light emitting diode               |
| MCU   | : | Micro control unit                 |
| GND   | : | Ground                             |
| IOM   | : | I/O module                         |
| IOA   | : | I/O adapter                        |
| LVDS  | : | Low Voltage Differential Signaling |
| BP  | : | Backplane                          |
|  | : | Fuse                               |
|  | : | Diode                              |
|  | : | Power supply                       |
|  | : | Load                               |
|  | : | Transformer                        |

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

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