

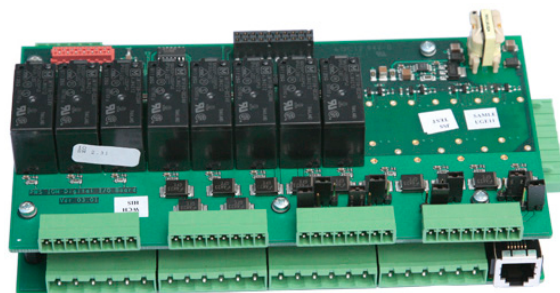
POWERSENSE

TECHNICAL DATASHEET FOR THE DISCOS[®] I/O MODULE

DESCRIPTION

The DISCOS[®] I/O module is part of the DISCOS[®] System. The DISCOS[®] I/O module is designed for current supervision of up to 12 LV phases (4 transformer bays) and voltage supervision of 3 LV phases. Furthermore the I/O module has up to 8 digital inputs and 8 digital outputs.

The current and voltage supervision includes current and voltage measurements, active and reactive power measurements, voltage and current alarms.



MAIN OPERATIONAL PARAMETERS

12-phase CT current measurement for LV power lines

3-phase voltage

8 digital outputs

8 digital inputs

Active power measurement on 3 phases

Reactive power measurement on 3 phases

Peak load (active/reactive)

Voltage/current alarms

Detection of blown transformer fuses

2 temperature measurements external or internal

Front panel LED indication

TECHNICAL SPECIFICATIONS

Main electrical characteristics

Supply voltage	10-30 VDC
Rated power consumption	5 W
Internal fuse	Yes, for supply voltage

Communication specifications

Method of transmission data	CAN version 2.0b
Transceiver bit rate	125 kbps
Number of units on CAN bus	125 units

Ambient specifications

Operational temperature	-20°C to +75°C
Operating humidity (non-condensing)	25%-90% RH at +40°C

Operational life time

Designed for	15 years
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Input/output specifications

12-phase CT current inputs with accuracy	Class 1
8 x digital outputs	250 VAC, 10A
8 x digital inputs	Switch 5 VDC, 5 mA
3 x voltage measurement	0-270 VAC (phase neutral), 50-60 Hz

DESIGNED FOR*

Emissions	EN 61000-6-3
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Immunity	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 61000-4-8
	EN 61000-4-11
	EN 61000-6-2

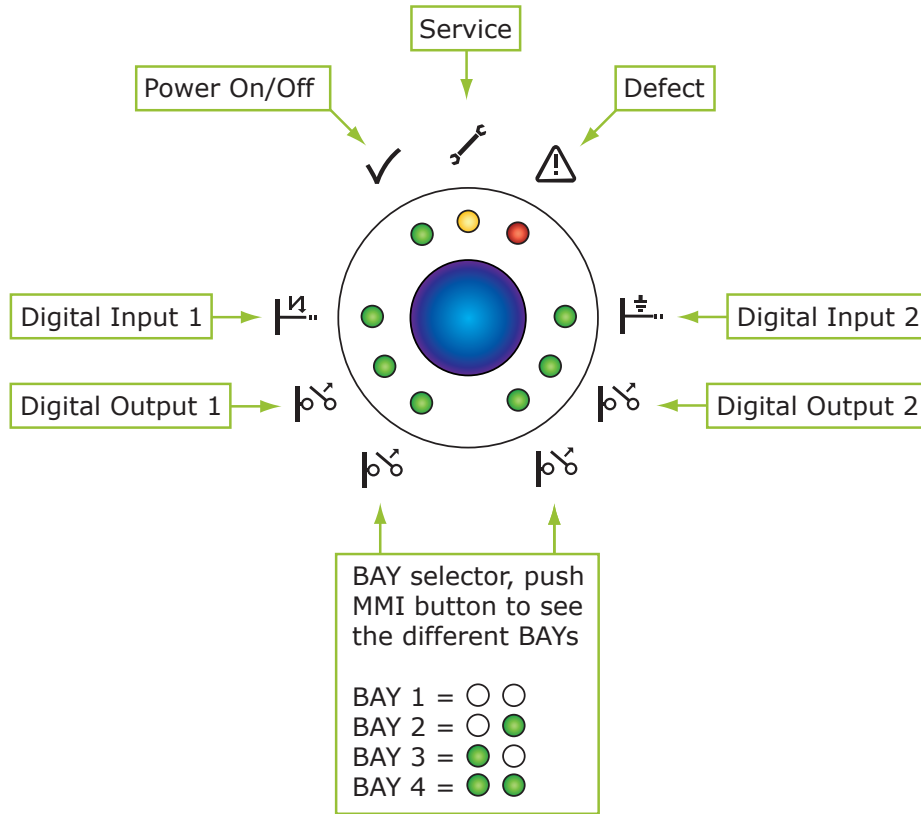
Safety	IEC 61558-1
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CE mark	Complied
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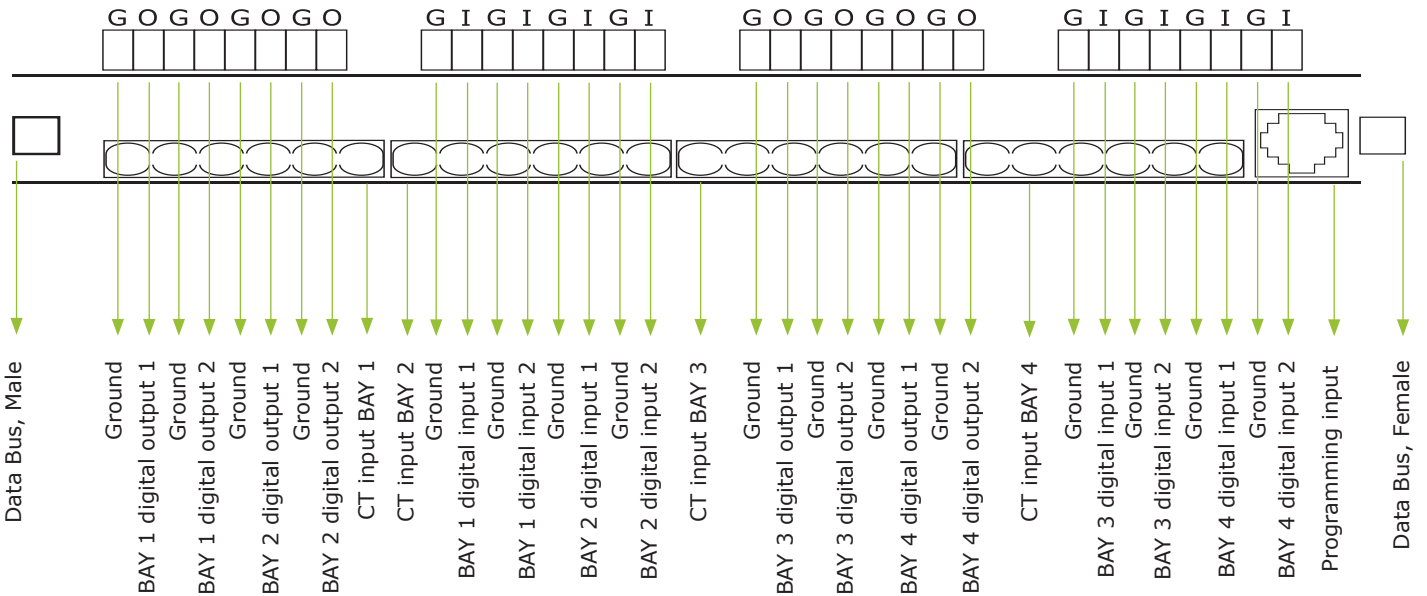
Approvals	CAN/CSA C22.2 No. 61010-1-04
	EC 61010-1: 2001 Class III, if no fuse
	IEC 61010-1: 2001 Class IV, if placed after fuse
	EN 61010-1: 2001 Class III, if no fuse
	EN 61010-1: 2001 Class IV, if placed after fuse
	IEC 60255-5
	IEC 60255-22-1
	IEC 60255-22-4

* When used in a DISCOS® System setup, the module has been designed to operate according to the following standards.

FRONT PANEL EXPLANATIONS



CONNECTIONS ON THE I/O MODULE





POWERSENSE[®]

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