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Distributed I/O device - RL PN 24-2 DI 16 2TX - 2773665

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Digital input device for PROFINET, 100Base-TX, fast startup, supported protocols: SNMPv2, TFTP, LLDP and PDev for topology detection, 16 inputs (24 V DC), VARIOSUB push/pull connection method, rugged metal housing, degree of protection IP67

Your advantages

- ☑ Rugged metal housing
- ☑ Comprehensive diagnostic functions
- ☑ Push/pull connector for supply voltage
- ☑ M12 connector for I/O devices
- ☑ Push/pull connector for PROFINET, either with fiber optic or twisted pair

RoHS **PROFINET®**

Key Commercial Data

Packing unit	1
GTIN	
GTIN	4046356435987
Custom tariff number	85176200

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	182.5 mm
Height	71.5 mm
Depth	79.8 mm

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Technical data

Dimensions

Note on dimensions	Without connector, with mounting plate

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Degree of protection	IP65/IP67
Note	Seal unused slots/connections to ensure the degree of protection.

General

Mounting type	Wall mounting
Net weight	1180 g
Note on weight specifications	without plug or mounting plate
Note	Seal unused slots/connections to ensure the degree of protection.

Interfaces

Designation	PROFINET
Number	2
Connection method	VARIOSUB push-pull connectors
Designation connection point	Copper cable
Transmission speed	10/100 Mbps (auto negotiation)
Transmission physics	Twisted pair connection
Number of positions	4

Power supply for module electronics

Connection method	VARIOSUB push-pull connectors
Designation	US1
Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30 V DC (including ripple)
Ripple	Max 3.6 V_{SS} within the permissible voltage range

Digital inputs

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
Number of inputs	16

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Technical data

Digital inputs

Protective circuit	Electronic short-circuit/overload protection for each group Reverse polarity protection
Nominal input voltage U_{IN}	24 V DC

Electrical isolation

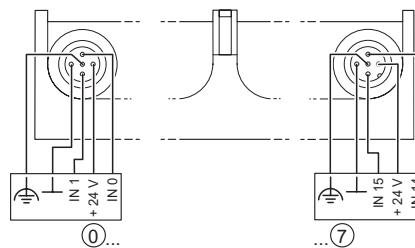| Test section	Between bus logic and outputs 500 V AC 50 Hz 1 min.

Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

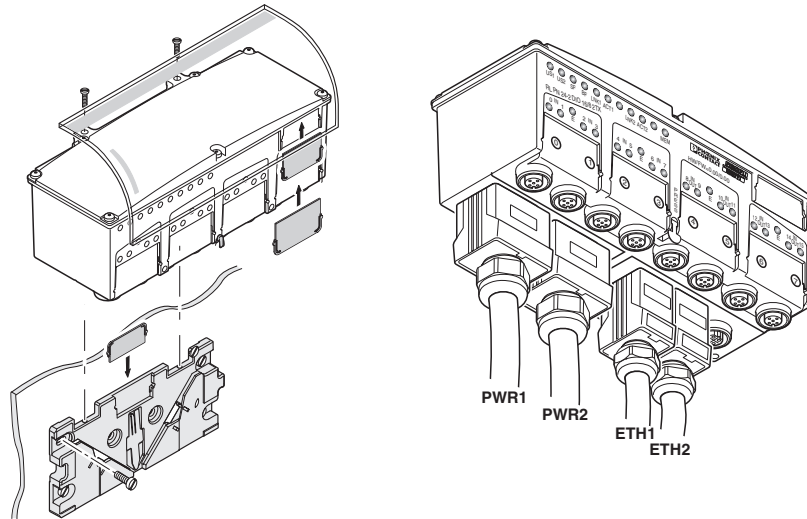| REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Connection diagram

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Functional drawing

Classifications

eCl@ss

eCl@ss 10.0.1	27242604
eCl@ss 11.0	27242604
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404

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Classifications

UNSPSC

UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cULus Listed	

Accessories

Accessories

Assembly element

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Accessories

Lower mounting part - IBS RL AP - 2731128

Mounting plate for Ruggedline devices

Cable by the meter

Cable - IBS PWR/5HD/F - 2731775

Power supply cable, gray, welding-splash-resistant in standard applications, 5 x 1.5 mm², highly flexible, sold by the meter

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Cable - IBS PWR/5 - 2820000

Power supply cable, gray, welding-splash-resistant in standard applications, 5 x 1.5 mm², sold by the meter

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Circular connector (cable-side)

Connector - SACC-M12MS-4QO-0,75 - 1641769

Connector, Universal, 4-position, Plug straight M12, Coding: A, Insulation displacement connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

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Data plug

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Accessories

RJ45 connector - VS-PPC-C1-RJ45-MNNA-PG9-4Q5-B - 1405141

RJ45 connector, IP67, with push-pull interlocking, metal housing, CAT5e, 4-pos., with QUICKON fast connection technology, for 1-wire and 7-wire conductors AWG 26 ... 22, for cable cross section 5.0 mm ... 8.0 mm

Power connector - VS-PPC-C2-MSTB-MNNA-P13-A5-SP - 1608074

Power connector, degree of protection: IP65, number of positions: 5, material: Zinc die-cast, connection method: Spring-cage connection, connection cross section: AWG 18- 13, cable outlet: straight, color: silver

Labeling panel

Marking label - IBS RL MARKER-SET - 2732729

Set of 50 small and 50 large metal marking labels

Marking label - IBS RL MARKER-G-SET - 2734727

100 large metal marking labels

Marking label - IBS RL MARKER-K-SET - 2734730

100 small metal marking labels

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Accessories

Protective cover

Protective covers - VS-PPC-C1-PC67-MNNA - 1608142

Protective cover, IP67, metal version, to cover the contact insert in the RJ45 and SC-RJ push-pull panel mounting frames

Storage medium

Configuration memory - FL MEM PLUG - 2891259

Exchangeable configuration memory of the device settings for simple device exchange and set-up

Y-distributor

Y distributor - SAC-3P-M12Y/2XM12FS PE - 1683455

Y distributor, 4-position, unshielded, Plug straight M12, coding: A, on Socket straight M12, coding: A and Socket straight M12, coding: A