

1106407

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Gateway module for acquiring standard status and diagnostic data from PSR-CT safety switches and forwarding data packets to an IO-Link master

Product description

The gateway is an IO-Link communication module for acquiring standard status and diagnostic data from PSR-CT safety switches and forwarding data packets to an IO-Link master.

Your advantages

- LED displays for current connection, IO-Link communication establishment, and connected sensors
- Protection class IP20 for installation in control cabinets
- Low housing width of just 12.5 mm
- Tool-free and time-saving installation thanks to Push-in technology
- Compatible with products of the PSRswitch range with integrated diagnostics channel

Commercial data

Item number	1106407
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	02
Product key	DNA61Z
GTIN	4063151003012
Weight per piece (including packing)	98.361 g
Weight per piece (excluding packing)	70.367 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Product properties

Product type	Gateways/Proxies
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Electrical properties

Maximum power dissipation for nominal condition	0.9 W (when IO-Link is inactive)
Nominal operating mode	100% operating factor

Air clearances and creepage distances between the power circuits

Rated insulation voltage	30 V
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Supply

Designation	L+/L-
Nominal voltage for I/O supply	24 V DC -20 % / +25 % (Provided via the IO-Link interface of the IO-Link master.)
Current consumption	typ. 14 mA (if the switch chain is active, normal operation) typ. 13 mA (if the switch chain is inactive)
Protective circuit	Serial protection against polarity reversal Suppressor diode

Supply

Designation	24V/GND
Inrush current	typ. 3.1 A ($\Delta t < 1.2$ ms)
Filter time	1 ms (in the event of voltage dips)
Power consumption at U_D	typ. 0.1 W (IO-Link active, normal operation) typ. 0.85 W (IO-Link inactive)
Protective circuit	Serial protection against polarity reversal Suppressor diode

Input data

Digital: Diagnostic input (DGN)

Description of the input	Potential 24 V/GND or U_S
Number of inputs	1
Input voltage range	0 V DC ... 30 V DC
Protective circuit	Suppressor diode
Current consumption	typ. 30 mA

IO-Link

Designation	IO-Link
Description of the input	IO-Link switching and communication cable
Number of inputs	1
Connection method	Push-in connection
Connection technology	3-conductor
Number of ports	1

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Port type	Class A
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Signaling

Status display	2 x green, yellow LED
Operating voltage display	1 x green, yellow, red LED

Dimensions

Width	12.5 mm
Height	108 mm
Depth	114.5 mm

Material specifications

Housing material	Polyamide
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Shock	15g
Vibration (operation)	10 Hz ... 150 Hz, 5g

Approvals

CE

Certificate	CE-compliant
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Standards and regulations

Air clearances and creepage distances between the power circuits

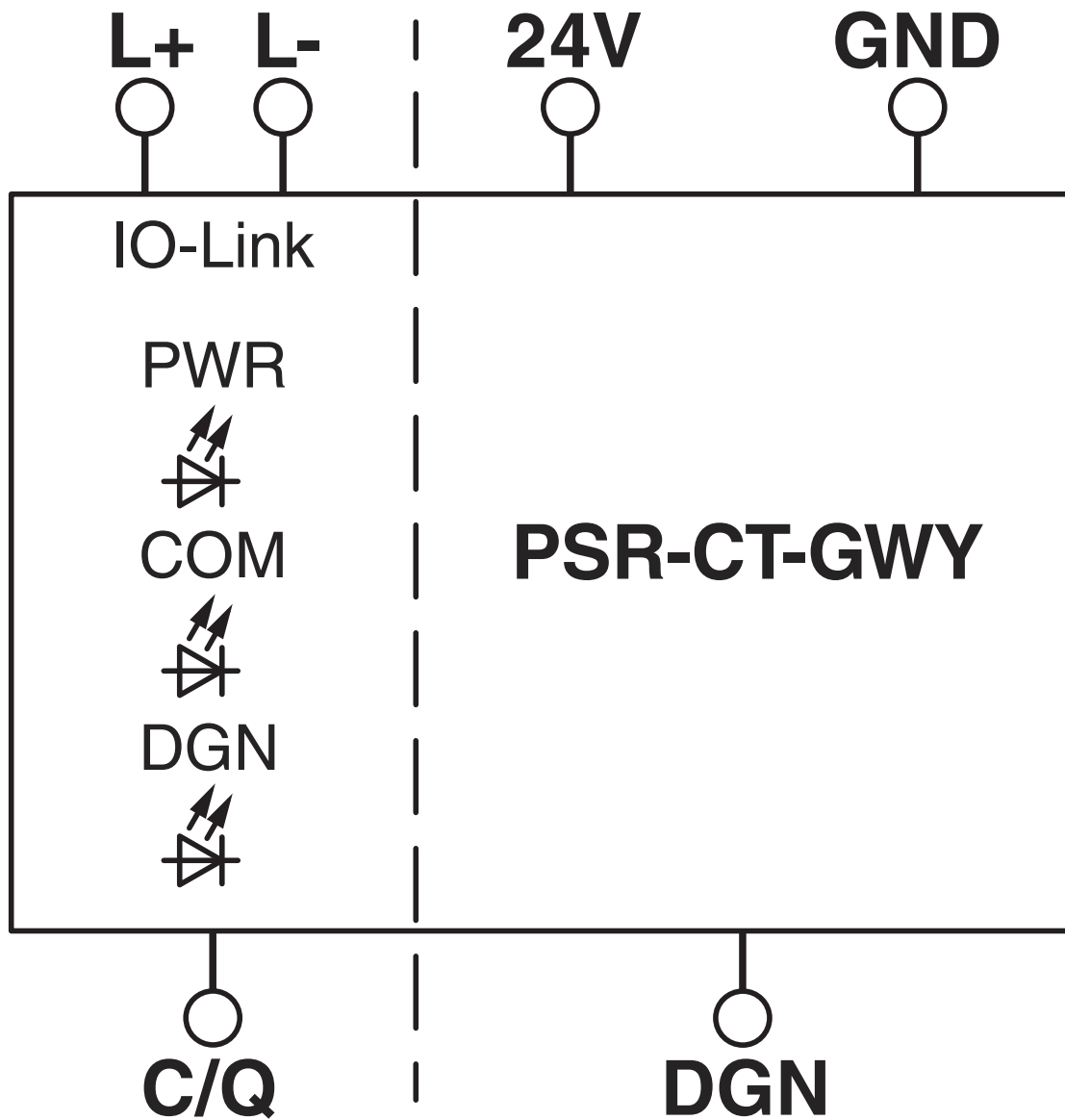
Standards/regulations	EN 60947
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Mounting

Mounting type	DIN rail mounting
Mounting position	vertical or horizontal
Connection method	Push-in connection

Drawings

Block diagram




Block diagram

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Approvals

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 **UL Listed**
Approval ID: FILE E 140324

 **cUL Listed**
Approval ID: FILE E 140324

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 9.0	EC001604
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

PSR-CT-GWY-1DGN-IOL-PI - Data interface



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Accessories

PSR-CT-C-SEN-1-8 - Safety switch sensor

2702972

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Proximity safety circuit up to Cat. 4, PL e (EN ISO 13849), SIL 3 (IEC 61508), unicode sensor with RFID coding, model 4 (EN ISO 14119), automatic or manual start, integrated diagnostics, 24 V DC supply, IP69K, M12 connector

PSR-CT-M-SEN-1-8 - Safety switch sensor

2702975

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Proximity safety circuit up to Cat. 4, PL e (EN ISO 13849), SIL 3 (IEC 61508), multicode sensor with RFID coding, model 4 (EN ISO 14119), automatic or manual start, integrated diagnostics, 24 V DC supply, IP69K, M12 connector

PSR-CT-GWY-1DGN-IOL-PI - Data interface



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PSR-CT-F-SEN-1-8 - Safety switch sensor

2702976

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Proximity safety circuit up to Cat. 4, PL e (EN ISO 13849), SIL 3 (IEC 61508), fixcode sensor with RFID coding, model 4 (EN ISO 14119), automatic or manual start, integrated diagnostics, 24 V DC supply, IP69K, M12 connector

PSR-CT-C-ACT - Safety switch actuator

2702973

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Proximity safety circuit up to Cat. 4, PL e (EN ISO 13849), SIL 3 (IEC 61508), coded actuator, compatible with all sensor coding types, supplied inductively via the sensor, IP69K

PSR-CT-GWY-1DGN-IOL-PI - Data interface



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IOL MA8 EIP DI8 - Communication module

1072839

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Eight-channel IO-Link master provides convenient configuration of IO-Link devices using web-based management. Supports connectivity to EtherNet/IP, MODBUS, and OPC UA. Features eight auxiliary digital inputs, redundant input power supply connections, plug-in push-in terminals.

IOL MA8 PN DI8 - Communication module

1072838

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Eight-channel IO-Link master provides convenient configuration of IO-Link devices using web-based management. Supports connectivity to PROFINET IO, MODBUS, and OPC UA. Features eight auxiliary digital inputs, redundant input power supply connections, plug-in push-in terminals.

PSR-CT-GWY-1DGN-IOL-PI - Data interface



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AXL F IOL8 2H - Communication module

1027843

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Axioline F, IO-Link master, IO-Link ports Class A: 8, connection method: Push-in connection, connection technology: 3-conductor, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

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