

Segment coupler - PSI-SC-DNET CAN - 2313449

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Modular segment coupler for electrical isolation and increasing the range for DeviceNet/SDS/CANopen, data rate of up to 1 Mbps. Different data rates at the interfaces can be configured via software. High-quality electrical isolation between the interfaces, DIN-rail mountable, 24 V DC supply.

Your advantages

- ✓ Data rates of up to 1 Mbps
- ✓ High-quality 4-way isolation between all interfaces
- ✓ All connections can be plugged in using a COMBICON screw terminal block
- ✓ Approved for use in zone 2
- ✓ Can be combined with PSI-MOS FO converters in a modular way thanks to DIN rail connectors



DeviceNet

CANopen



Distributed
Network
Protocol

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 451857
GTIN	4046356451857

Technical data

Note

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

Width	35 mm
Height	111 mm
Depth	121 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Degree of protection	IP20

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Ambient conditions

Noise immunity	EN 61000-6-2
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Serial interface

Interface 1	CAN interface, in accordance with ISO/IS 11898 for DeviceNet, CAN, CANopen
Operating mode	Semi-duplex
No. of ports	2 (CAN_High / CAN_Low)
Connection method	COMBICON plug-in screw terminal block
File format/coding	Bit stuffing, NRZ
Transmission medium	2-wire twisted pair, shielded
Transmission length	≤ 5000 m (Dependent on the data rate and the protocol used)
Termination resistor	Integrated and ready to be switched
	124 Ω, integrated and can be connected
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Serial transmission speed	≤ 1000 kbps
Interface 2	CAN interface, in accordance with ISO/IS 11898 for DeviceNet, CAN, CANopen
Connection method	COMBICON plug-in screw terminal block
Transmission length	≤ 5000 m (Dependent on the data rate and the protocol used)
Termination resistor	124 Ω, integrated and can be connected
Serial transmission speed	≤ 1000 kbps

Digital outputs

Output name	Relay output
Number of outputs	1
Contact type	N/O contact
Minimum switching voltage	10 V DC
Maximum switching voltage	30 V DC
Limiting continuous current	500 mA

Power supply

Nominal supply voltage	24 V DC
Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Max. current consumption	80 mA
Typical current consumption	55 mA (24 V DC)

General

Bit distortion, input	± 35 %
Bit distortion, output	< 6.25 %

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Technical data

General

Electrical isolation	according to EN 60950
	VCC // CAN A // CAN B
Test voltage data interface/power supply	1.5 kV _{rms} (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55011
Net weight	234.7 g
Housing material	PA 6.6-FR
Color	green
MTBF	743 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	163 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
MTTF	949 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day))
	443 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))
	181 Years (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day))
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X (Please follow the special installation instructions in the documentation!)
UL, USA/Canada	508 Listed

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Type of test	Free fall in acc. with IEC 60068-2-32
Test result	1 m
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 10...150 Hz, 2.5 h, in XYZ direction
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g, 11 ms period, half-sine shock pulse
Noise emission	EN 55011
Noise immunity	EN 61000-6-2
Free from substances that could impair the application of coating	according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
Signal	± 1 kV
Standards/regulations	EN 55011

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Standards and Regulations

	EN 61000-4-6
Designation	Air clearances and creepage distances
Standards/regulations	DIN EN 50178, DIN EN 60950
Electrical isolation	according to EN 60950
Shock	15g in all directions in acc. with IEC 60068-2-27
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X
UL, USA/Canada	508 Listed
DNV GL-Temperature	B
DNV GL-Humidity	A
DNV GL-Vibration	A
DNV GL-EMC	B
DNV GL-Enclosure	Required protection according to the Rules shall be provided upon installation on board

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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