

PX24, PXN

ISOLATED CONVERTER OF DC CURRENT OR VOLTAGE

- PX24 loop powered 4- 20mA - PXN
 - auxiliary power supply
- measures and separates input DC current and voltage
- allows bipolar input and output signal
- input, output and supply circuits are isolated (4000V_{RMS} tested)
- designed for DIN 35 rail mounting
- conversion accuracy < 0.1%
- time constant typ.1ms, for order up to 300ms

The module has been designed to convert DC current (±50uA...±10A) or voltage (±10mV...±1000V) from shunt resistors and sensors into a series of unified ranges (0..10V, 0..20mA, 4..20mA, 0..± 20mA, 0..±10V). The converter output-to-input response is linear. The converter is particularly well-suited for heavy electromagnetic interference environment operation and features input-tooutput isolation.

Electrical specifications:

- storage temperature::

- supply voltage:

- consumption:



- operating temperature range: -25...+ 70°C -40...+ 80°C 12..30V DC PX24: 19-300VDC 90-250VAC PXN: for order: 20 - 60VAC max. 1,5VA voltage from ±10mV to ±1000V from ±50uA to ±10A 4..20mA 0..20mA, 4..20mA, 0..10V 0..±20mA, 0..±10V min. 15V max. 10mA typ. 100kohm / V, max.13Mohm < 0,54V for 20mA, 5mV for 10A typ. 30mA (electronic fuse) < 0,1% < 0,1% < 0,01%/°C 1ms, for order up to 300ms IP40 / IP20 90g pollution level 2 isolation level: reinforced basic

up 1000V

up 1000V

V006 qu

up 1000V

up 600V

up 300V



Converter dimensions:



Terminal designation:

1.3...input signal (3 is +)

4,5..output signal (5 is +)

6,7.. auxiliary power supply without polarity

Application variants:

PXN 5 6 19-300VD 90-250VA 7 C 3+ IN



- input signal: current - output signal: PX24: PXN: - output voltage amplitude: - voltage output load: - input resistance of voltage input: - voltage drop of current input:: - output current limit: - measurement error: - linearity error: - temperature induced error: - time constant: - enclosure (casing / terminal board): - weight: - working environment: - max.working voltage across isolation overvoltage category instalation Ш ш

Type tests:

Standard type test:	to ČSN EN 60770-1
EMC:	to ČSN EN 61326-1
Safety:	assessed acc. to ČSN EN 61010-1

Connections: The terminals accept wires with 2,5mm². We recommend using a cable with a minimal cross 0,5mm². In the interfering environments use shielded or twisted cable.

Ordering instructions:

- Your order should include:
- module type
- quantity
- input and output signal
- time response (if it is different from 1ms)

