DATASHEET nLink+ EC RL DP5000

Dual channel transmitter with 2 analog signal outputs for the continous measurement of differential pressure for installation in electrical cabinets on mounting rails.

Can be ordered as a variant with 1 or 2 dP sensors.

Bidirectional differential pressure sensors based on static (membrane) measurement with absolute pressure sensor included.

Configuration with USB cable for Windows PC.

Configuration possible without external power supply.

Art.-Nr.:	Product-name:	
XXXXXXX	nLink+ EC AS C	1*dp sensor ±5000Pa
XXXXXXX	nLink+ EC AS CC	2*dp sensor ±5000Pa

Technical data:

Measurement Range	-5000 to +5000 Pascal
Accuracy at 20°C	Typical ±1.0% F.S.
Temperature effect	Max. ±0.20Pa
Max. Resolution	0.1 Pa
Long term stability	±0.10% FSS (typ)
Flow rate	Compensated with built in abs pressure sensor
Ambient pressure dependency	700 – 1260 hPa / mBar
Ambient pressure: Range	±0.5 hPa
Ambient pressure: Accuracy	0.1 bar (burst pressure 0.3 bar)
Max. permissible overpressure	24V DC, Permissible voltage range: 5 to 39V
Power supply	<0.5W
Power consumption	2.8 Zoll LCD Touch Display
Display	LED for power On, LED for nSens connected
Status LED	LED for power On, LED for nSens connected
Output	2 configurable relays outputs Relay performance: Max. power consumption 60W Max. voltage 50V Max. current 5A
Housing material	PA6.6 (UL94V0), mounting rail holder
Protection class	none, installation in protected cabinet required
Soldering material	lead free (RoHS compliant)
Working temperature	0 to 50°C
Storage temperature	-10 to 60°C (non-condensing)
CE-/EMC	Safety: EN 61010-1:2020 EMC: IEC 61000-6-3:2020, EN 61000-6-3:2007+A1:2011 EN IEC 6100-6-3:2021 IEC 61000-6-2:2016, EN 61000-6-2:2019 IEC 61326-1:2012 / EN 61326-1:2013 IEC 61326-1:2020 / EN 61326-1:2021

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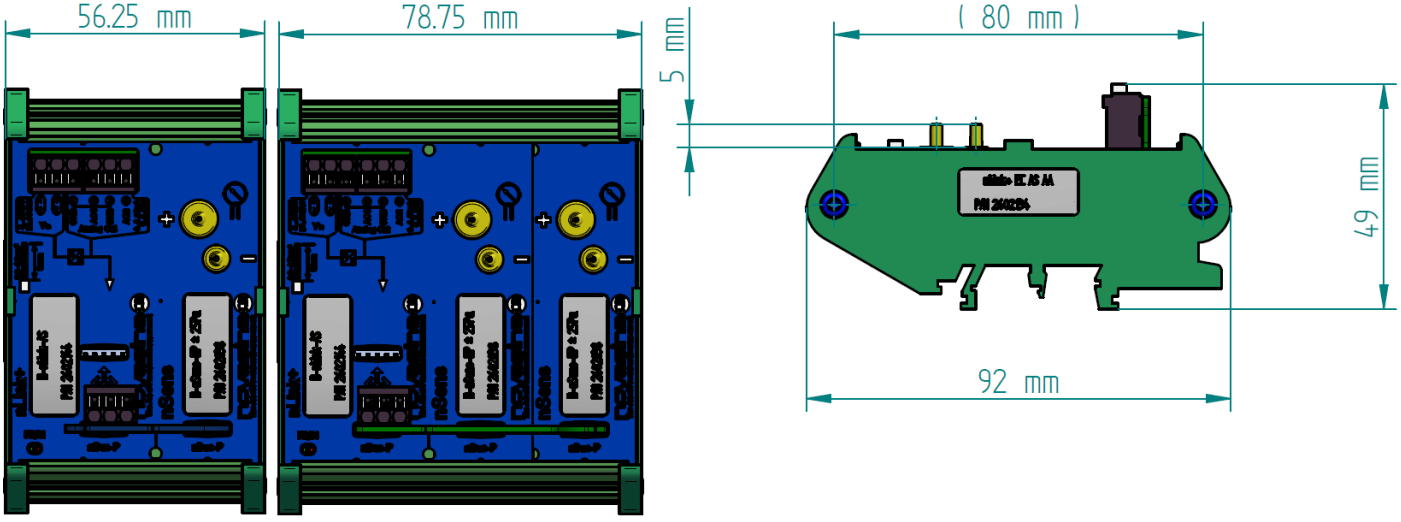
Electrical installation:

Clamping range	0.13 - 1.5mm2 (Push-in Spring clip)	
Wires	w. plastic collar ferrule DIN 46228/4:	0,25 - 0.75 mm²
	w. wire end ferrule DIN 46228/1:	0,25 - 1.50 mm²
	Solid, min. H05(07) V-U	0.2 - 1.50 mm²
	Wire connection cross section AWG28 - 14	

Cable specifications depend on the installation and have to be defined by the designer or installer. Heavy machinery and other instrumentation should not share the same power supply wiring. Use noise filters and surge protectors if required.
For EMC protection it is recommended to take the following measures:

- Wires emitting interference must be separated from measurement and analysis units
- Parallel guidance of measurement cables and electrical power cables must be avoided, use different channels with separation (see European Standard EN50170 for detailed information)

Dimension & Schematics:



More information & accessoires

Link to Website>

Technical data subject to change without prior notice

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