



Electronic Pressure Switch EDS 3400 with IO-Link Interface



Description:

The EDS 3400 with IO-Link communication interface is a compact electronic pressure switch with integrated digital display for relative pressure measurement in the high-pressure range.

The device is equipped with a switching output and additional output that can be configured as switching or analog (4 .. 20 mA or 0 .. 10 V).

Compared with the standard version, the IO-Link interface enables bidirectional communication between the device and the control.

Parameterization and cyclical transmission of process and service data is therefore possible.

The pressure switch series EDS 3400 with communication interface IO-Link according to specification V1.1 has been specially designed for connecting sensors in automation systems.

Typical fields of application are machine tools, handling and assembly automation, intralogistics or the packaging industry.

Special features:

- 1 PNP transistor switching output
- 1 universal output, configurable as PNP transistor switching output or analog output
- Accuracy $\leq \pm 0.5\%$ FS B.F.S.L.
- 4-digit digital display
- Optimum alignment: can be rotated in two axes

Technical data:

Input data

Measuring ranges	1000, 3000, 6000, 9000 psi
Overload range	2900, 7250, 11600, 14500 psi
Burst pressures	7250, 14500, 29000, 29000 psi
Mechanical connection	9/16-18 UNF 2A (SAE 6 male)
Torque value	15 lb-ft (20 Nm)
Parts in contact with medium	Mech. connection: Stainless steel Sensor cell: Stainless steel Seal: FPM

Output data

Output signals	Output 1: PNP Transistor switching output Output 2: can be configured as PNP transistor switching output or analog output
Accuracy to DIN 16086	$\leq \pm 0.5\%$ FS typ.
Max. setting (display, analog output)	$\leq \pm 1\%$ FS max.
Repeatability	$\leq \pm 0.25\%$ FS max.
Temperature drift	$\leq \pm 0.014\%$ /°F max zero point $\leq \pm 0.014\%$ /°F max. range

Analog output

Signal	selectable: 4 .. 20 mA 0 .. 10 V	load resistance max. 500 Ω load resistance min. 1 k Ω
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Switch outputs

Type	PNP transistor switching output
Switching current	max. 250 mA per output
Switching cycles	> 100 million
Reaction time	< 10 ms
Long term drift	$\leq \pm 0.3\%$ FS typ. / year

Parameterization

Via IO-Link interface, with HYDAC programming device HPG 3000 or push buttons on the EDS 3400

Environmental conditions

Compensated temperature range	14..158°F
Operating temperature range	-13..+176°F (-13..+140°F acc. to UL spec.)
Storage temperature range	-40..176°F
Fluid temperature range	-13..176°F
CE - mark	EN 61000-6-1 / 2 / 3 / 4

Vibration resistance according to DIN EN 60068-2-6 (0 .. 500 Hz)

≤ 10 g

Shock resistance according to DIN EN 60068-2-29 (11 ms)

≤ 50 g

Protection class to IEC 60529

IP 67

Other data

Supply voltage	9 .. 35 V DC without analog output 18 .. 35 V DC with analog output
Current consumption	≤ 0.535 A with active switching outputs ≤ 35 mA with inactive switching outputs ≤ 55 mA with inactive switching output and analog output
Display	4-digit, LED, 7-segment, red, height of digits 7 mm
Weight	~ 120 g

Note: Excess voltage, override protection and short circuit protection are provided.
FS (Full Scale) = relative to complete measuring range

