YDAC INTERNATIONAL



Description:

The electronic pressure switch EDS 710 has been specially developed for use in series applications.

The highly compact unit has a very robust pressure sensor with thin-film strain gauge on a stainless steel membrane.

The EDS 710 is available with 1 transistor output (PNP) which can be defined either as N/C or N/O.

The switch and switch-back point of the EDS 710 each are factory-set acc. to customer specification (not field-adjustable).

Various pressure ranges between 0 .. 16 bar and 0 .. 600 bar are available.

Pressure Switch

EDS 710 for series applications

Relative pressure

Factory-set

Customised designs thanks to diverse electrical and mechanical connections 1 switching output

Technical data:

Input data									
Measuring ranges	bar	40	60	100	160	250	400	600	
Overload pressures	bar	80	120	200	320	500	800	1000	
Burst pressure	bar	200	300	500	800	1250	2000	2000	
Mechanical connection G1/4 A ISO 1179-2									
Tightening torque, recommended 20 Nm									
Parts in contact with fluid ¹⁾				Mech. connection: Stainless steel Seal: FKM					
Output data									
Switching output			1 PNP transistor output Switching current: 400 mA Switching cycles: > 100 million Switch point/switch-back point: acc. to customer specification Switch-on and switch-off delay: 8 2000 ms (standard 32 ms); factory-set acc. to customer specification						
Accuracy acc. to DIN 16086, terminal based			≤±0.5 % FS typ. ≤±1 % FS max.						
Temperature compensation, zero point			≤±0.02 % FS / °C typ. ≤±0.03 % FS / °C max.						
Temperature compensation, span			≤±0.02 % FS / °C typ. ≤±0.03 % FS / °C max.						
Repeatability			≤ 0.1 % FS max.						
Long-term drift			≤ ± 0.3 % FS typ. / year						
Environmental conditions									
Compensated temperature range			-25 +85 °C						
Operating temperature range ²⁾			-40 +85 °C / -25 +85 °C						
Storage temperature range			-40 +100 °C						
Fluid temperature range ²⁾			-40 +100 °C / -25 +100 °C						
(€ mark			EN 61000-6-1 / 2 / 3 / 4						
Vibration resistance acc. to DIN EN 60068-2-6 at 10 500 Hz			≤ 20 g						
Shock resistance acc. to DIN EN 60068-2-27 (1 ms)			≤ 100 g						
Protection class acc. to DIN EN 605293)			IP 67						
Other data									
Electrical connection ⁴⁾			e.g. M12x1 (4 pole); jacketed cable						
Supply voltage			8 32 V DC						
Residual ripple of supply voltage			≤ 5 %						
Current consumption			max. 0.42 A total max. 20 mA with inactive switching output						
Weight	~ 60 g	~ 60 g							
Note: Reverse polarity protection of the supply voltage, overvoltage override and short circuit									

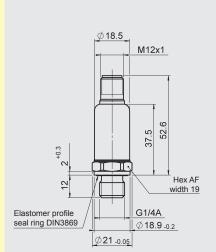
Note: Reverse polarity protection of the supply voltage, overvoltage, override and short circuit protection are provided.

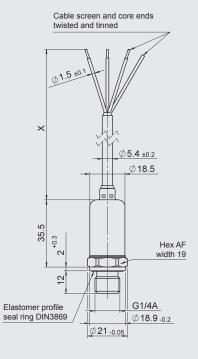
FS (Full Scale) = relative to complete measuring range

Other seal materials on request
 -25 °C with FKM seal, -40 °C on request
 With mounted mating connector in corresponding protection class (M12x1)

4) Additional electrical connection options, such as cables with various connector variants, available on request

Dimensions:





Note:

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical

Subject to technical modifications.

Order details:

The electronic pressure switch EDS 710 has been specially developed for OEM customers and is available for minimum order quantities of 100 units per type.

For precise specifications, please contact the Sales Department of HYDAC ELECTRONIC.