# HYDAD 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

t

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 I	SO 1179	9-2			
Tightening torque, recommended			20 Nm					
Parts in contact with fluid <sup>1)</sup>			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: 82000 ms (standard 32 ms); factory-set acc. to customer specification					
Accuracy acc. to DIN 16086, terminal based			≤±0.5° ≤±1%	% FS typ FS max	).			
Temperature compensation, zero point			≤ ± 0.02 % FS / °C typ. ≤ ± 0.03 % FS / °C max.					
Temperature compensation, span			≤ ± 0.02 ≤ ± 0.03					
Repeatability			≤ 0.1 %	FS max				
Long-term drift			≤±0.3 °	% FS typ	o. / year			
Environmental conditions								
Compensated temperature range			-25 +8	5 °C				
Operating temperature range <sup>2)</sup>			-40 +8		25 +85	°C		
Storage temperature range			-40 +1	00 °C				
Fluid temperature range <sup>2)</sup>			-40 +1	00 °C / ·	-25 +1	00 °C		
C E mark			EN 610	00-6-1/	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 6052	29 <sup>3)</sup>		IP 67					
Other data								
Electrical connection4)			e.g. M12 jack	2x1 (4 po ceted cal				
Supply voltage			832 V	' DC				
Residual ripple of supply voltage			≤5%					
Current consumption			max. 0.4 max. 20			e switchi	ng outpu	ıt
Weight			~ 60 g					
Note: Reverse polarity protection of protection are provided. FS (Full Scale) = relative to co	omplete		-	-	, overric	le and sl	nort circu	ıit
<ol> <li>Other seal materials on required and the seal of the</li></ol>	C on re		onding p	rotectior	n class (	M12x1)		

<sup>3)</sup> With mounted mating connector in corresponding protection class (M12x1)
 <sup>4)</sup> Additional electrical connection options, such as cables with various connector variants, available on request

+0.3

2

12

Elastomer profile seal ring DIN3869

Ø18.5

M12x1

37.5 52.6

G1/4A Ø18.9 ₋0.2

Ø**21**-0.05

Hex AF

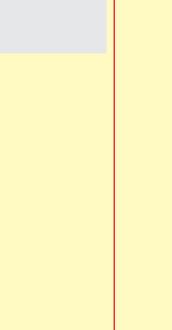
width 19

#### 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.

EN 18.351.3/02.18



### Note:

Cable screen and core ends twisted and tinned

Ø 5.4 ±0.2 \_Ø 18.5

Hex AF

width 19

G1/4A

Ø18.9 -0.2

00

II

Ø21-0.05

01.5 ±0

×

35.5 +0.3

Elastomer profile seal ring DIN3869

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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

department.

Subject to technical modifications.

HYDAC ELECTRONIC GMBH Hauptstr. 27, 66128 Saarbrücken Germany Telephone +49 (0)6897 509-01 Fax +49 (0)6897 509-1726 e-mail: electronic@hydac.com Internet: www.hydac.com