



HERION & RAU  
Fluidtechnik GmbH

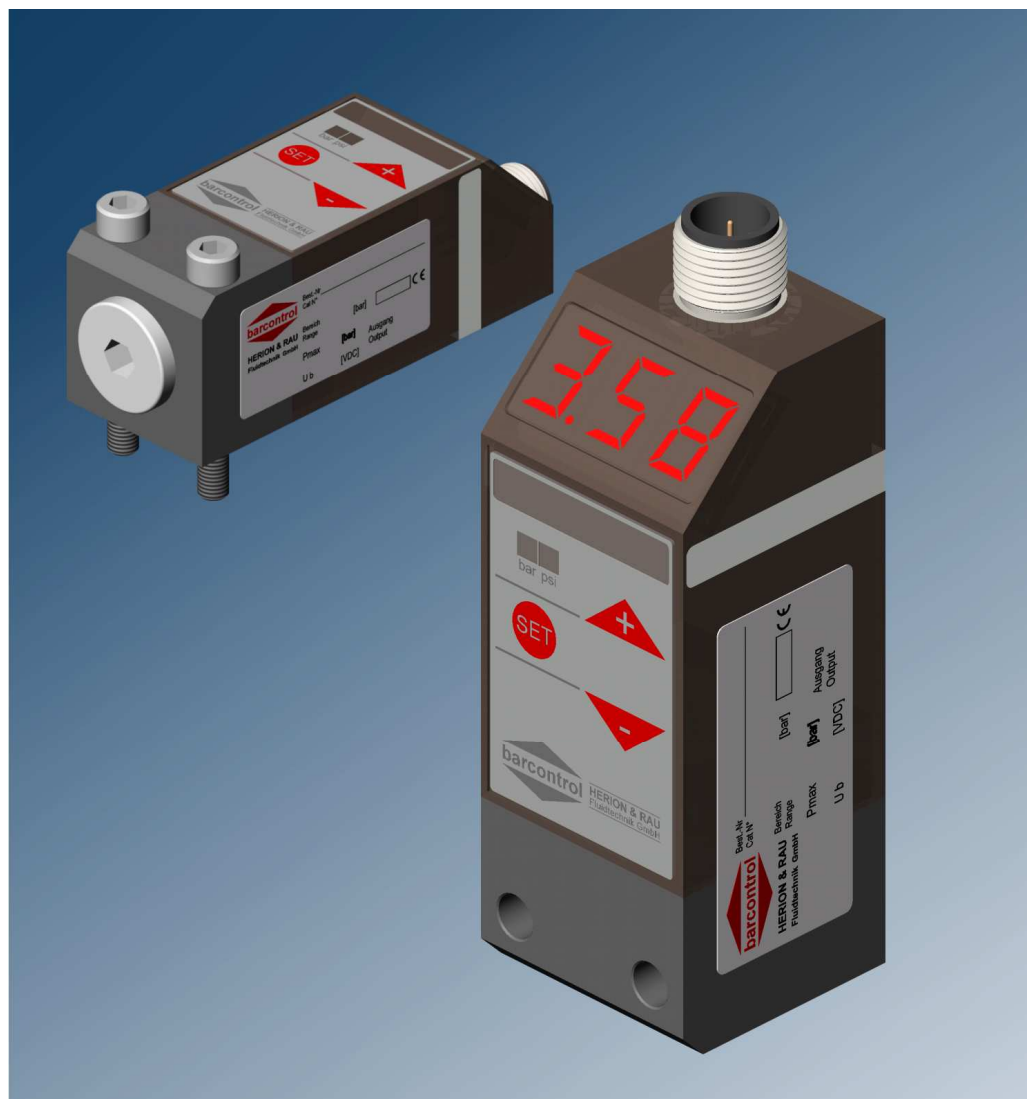
# Electronic Pressure Switch Series EDP

Pneumatic-electronic signal converter

Switching point adjustable: 0 ... 16 bar  
-1 ... 0 bar

Max. system pressure: 25 bar

Pneumatics



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## Features

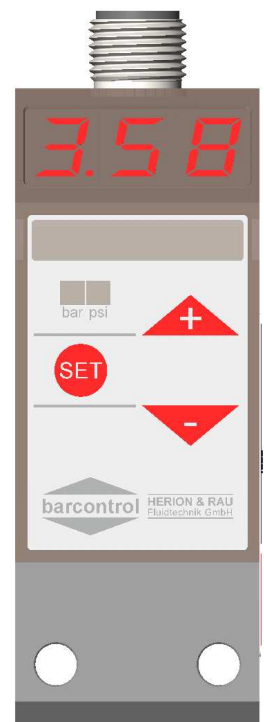
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The EDP electronic pressure switch converts pneumatic (fluid) signals into electrical signals. The device is individually adjustable across a pressure range of 0...16bar and for applications in a vacuum of -1...0bar and can be used as a threshold comparator with 1 hysteresis or as a window comparator with 2 hystereses. Setting can take place in bar or psi. EDP pressure switches have 2 independently programmable switching outputs.

A rugged ceramic load cell is used as a measuring sensor. The 3-digit red LED display (with pressure gauge function) is easy to read also with glare. Programming is easy and takes place via three user-friendly keys with sealed keypad and menu-assisted operation. The device can be electronically interlocked.

The pressure switch is designed for industrial use in normal ambient conditions. In addition to use in pneumatic applications, the device is also suitable for liquid and gaseous media, within the permissible pressure range, which can be slightly alkaline or acidic.

Devices for special applications, high system pressure or other pressure setting ranges are available on request. Optional couplers with cable as accessories are also available.



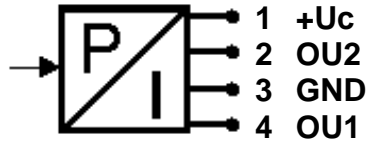
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## Technical data

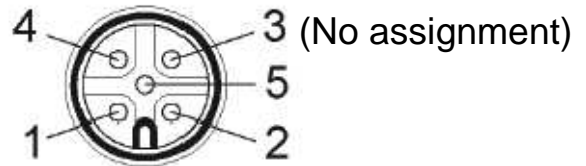
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Operating fluid:	Oiled or not oiled compressed air, slightly acidic/alkaline fluids
Fluid temperature:	-20°C ... +70°C
Fluid connection:	G1/4" internal thread; flange connection
Ambient temperature:	-20°C to +70°C
Max. operating pressure:	25 bar system pressure
Pressure setting range:	0 ... 16bar; -1... 0bar (vacuum application)
Operating voltage:	18 - 32 VDC
Power consumption:	< 80mA (without switching output)
Switched current:	Output 1 max.1.3A (PIN 4); ERROR/Output 2 max. 0.3A (PIN 2)
Switching logic:	NO/NC programmable
Switching outputs:	Short-circuit-proof
Electrical connection:	Connector M12x1
Display:	3-digit, red 7 segment LED display, programmable 0°/180°
Display status:	LED red /green
Linearity:	< ± 0.2...1.5% (FS)
TC zero:	< ± 0.2% (FS)
Mounting position:	optional
Degree of protection according to EN 60529:	IP 67
Material:	Housing: Medium-contacted part: Aluminium; housing: Plastic PA Load cell: Ceramic
Seals:	Medium-contacted parts: FKM; otherwise NBR
Weight:	about 0.100kg

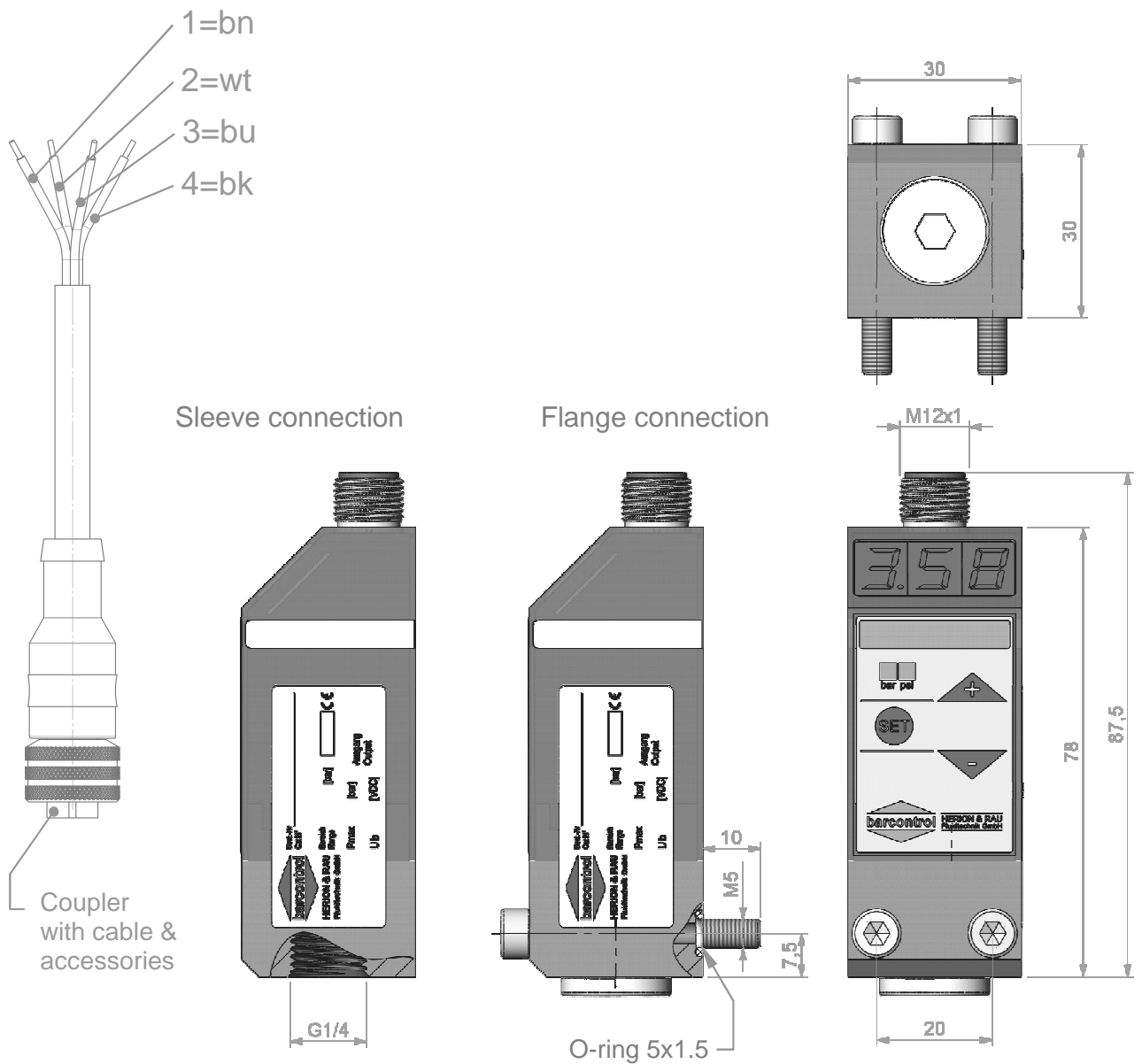
## Contact arrangement / graphical symbol



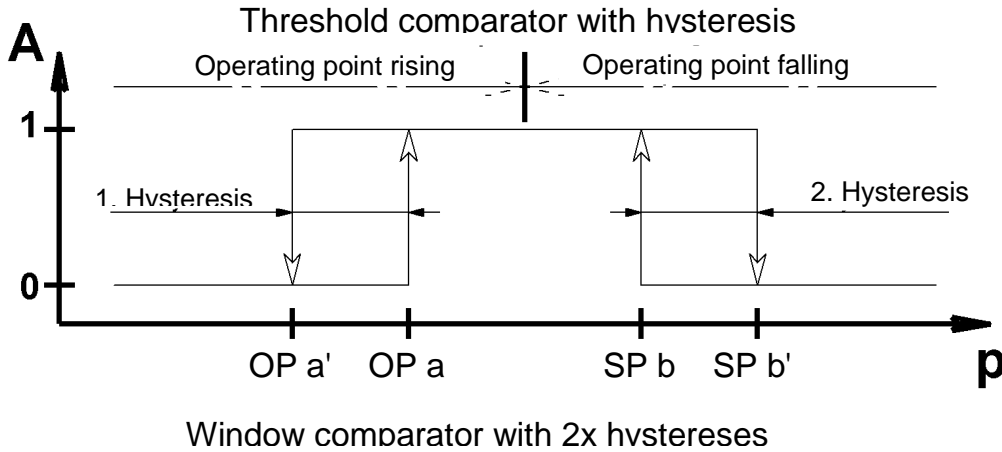
Pin assignments M12-connector



## Dimensional drawing



## Function threshold comparator / window comparator



SP a/a' = make value with reset point  
 SP b/b' = break value with reset point

Illustrated is the NO preset (NC). In the NC setting (NC) the graph is horizontally inverted, so that the start value is 1.

## Ordering type key

**EDP - 2 - XXX - C - X - 2 - GE xxx**

Customer tailored design

Electrical connection  
 2 = connector M12x1

Fluid connection  
 2 = G1/4" internal thread  
 4 = Flange connection

Measuring sensor  
 C = Ceramic load cell

Setting range  
 016 = 0...16 bar  
 000 = -1... 0 bar

Switching output  
 2 = 2 independently programmable  
 switching outputs

Electronic Pressure Switch Pneumatic

### Order example:

**EDP - 2 - 016 - C - 2 - 2**

- Electronic Pressure Switch
- 2 independently programmable digital outputs
- Operating point setting range 0...16 bar,
- Ceramic load cell
- Fluid connection: G1/4"i
- Electrical connection: M12x1