

Electronic Pressure Switch Series EDH

Electronic Pressure Switch

Variable operating point: 0 ... 100 bar
 0 ... 250 bar
 0 ... 400 bar

Max. system pressure: up to 600 bar

Hydraulics



Features

The EDH electronic pressure switch converts hydraulic (fluid) signals into electrical signals. The device is individually variable across various pressure ranges 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. EDH pressure switches have two independently programmable switching outputs.

A rugged and temperature-compensated 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 hydraulic applications, the device is also suitable for other liquid and gaseous media, within the permissible pressure range, which can be slightly alkaline or acidic.

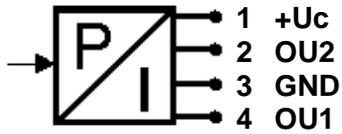
Devices for special applications, other pressure setting ranges, maximum pressures, fluid interfaces, operating media or output signals are available on request. Optional couplers with cable as accessories are also available.



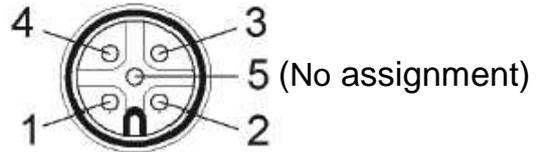
Technical data

Operating fluid:	Slightly acidic/alkaline fluids such as hydraulic fluid, light fuel oil
Fluid temperature:	-20°C ... +70°C
Fluid connection:	G1/4" fitting, rotating or fixed; vertical flange for DIN ISO 16873
Ambient temperature:	-20°C to +70°C
Pressure setting ranges	0...100 bar (175 bar max.); 0...250 bar (400 bar max.) 0... 400 bar (600 bar max.)
Operating voltage:	18 - 32 VDC
Power consumption:	< 80mA (without switching output)
Switched current:	Output 1 max. 1.3 A (PIN 4) ; ERROR/Output 2 max. 0.3 A (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: steel/aluminium; housing: plastic PA Load cell: Ceramic
Seals:	Medium-contacted parts: FKM; otherwise NBR
Weight:	approx. 0.150 kg

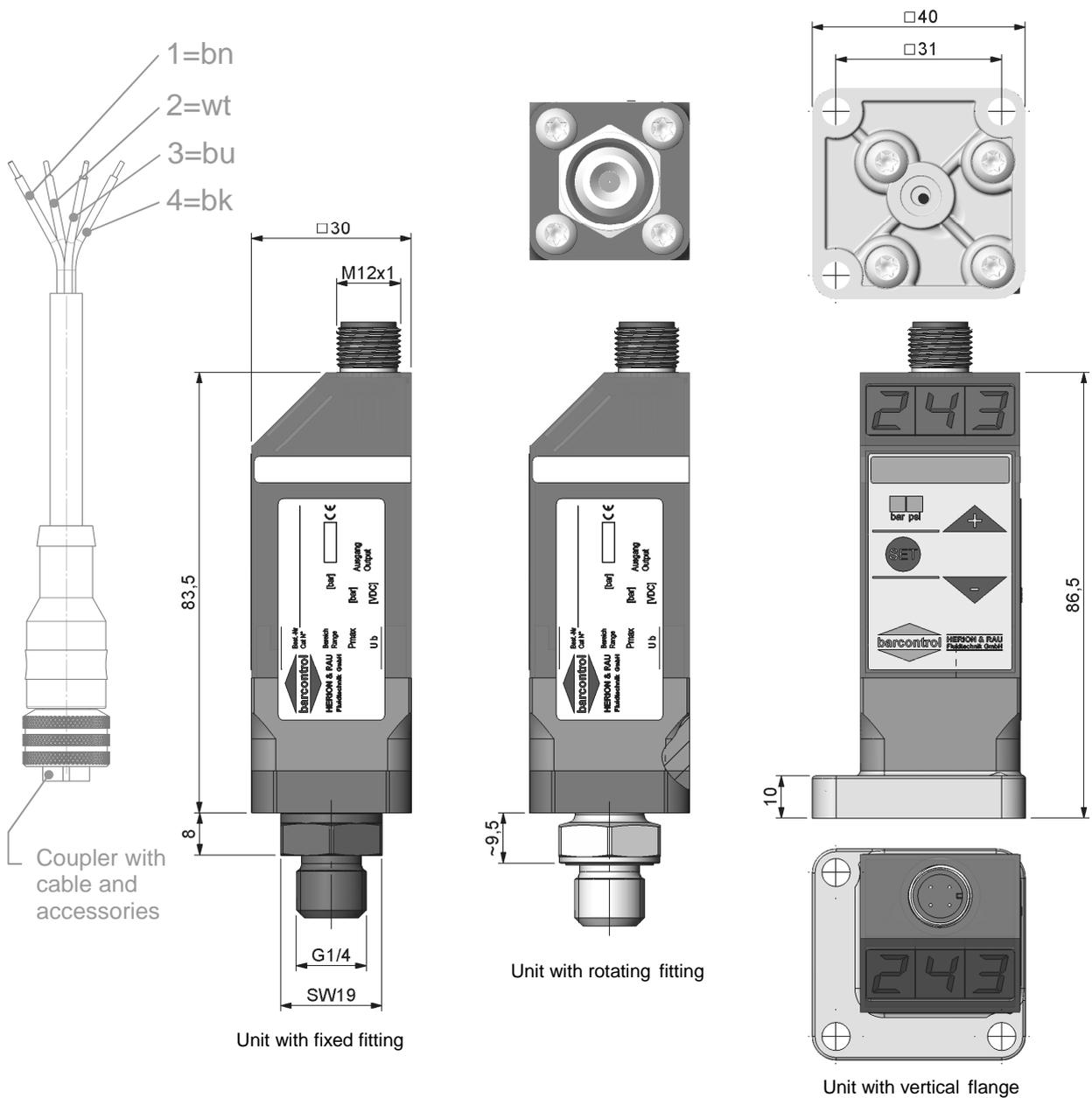
Contact arrangement / graphical symbol



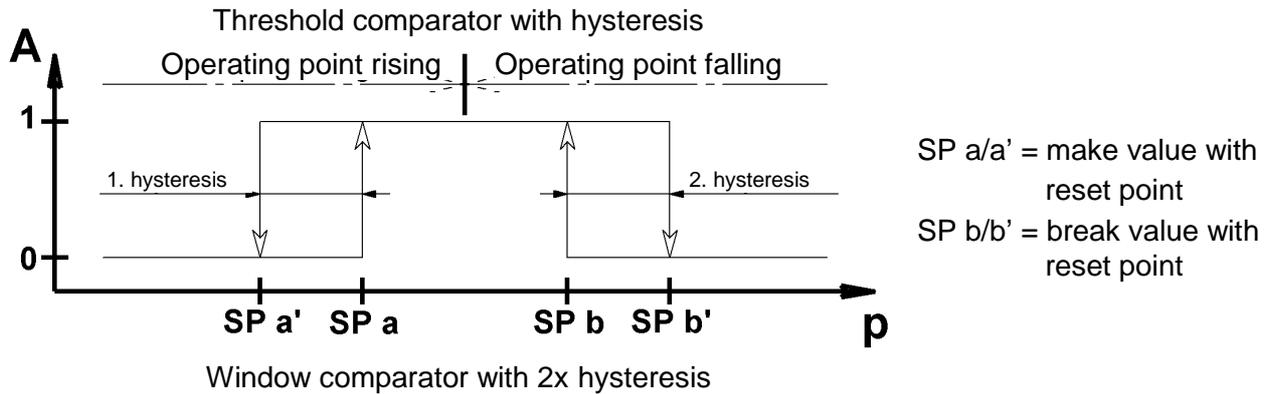
Pin assignment M12 connector



Dimensional drawing



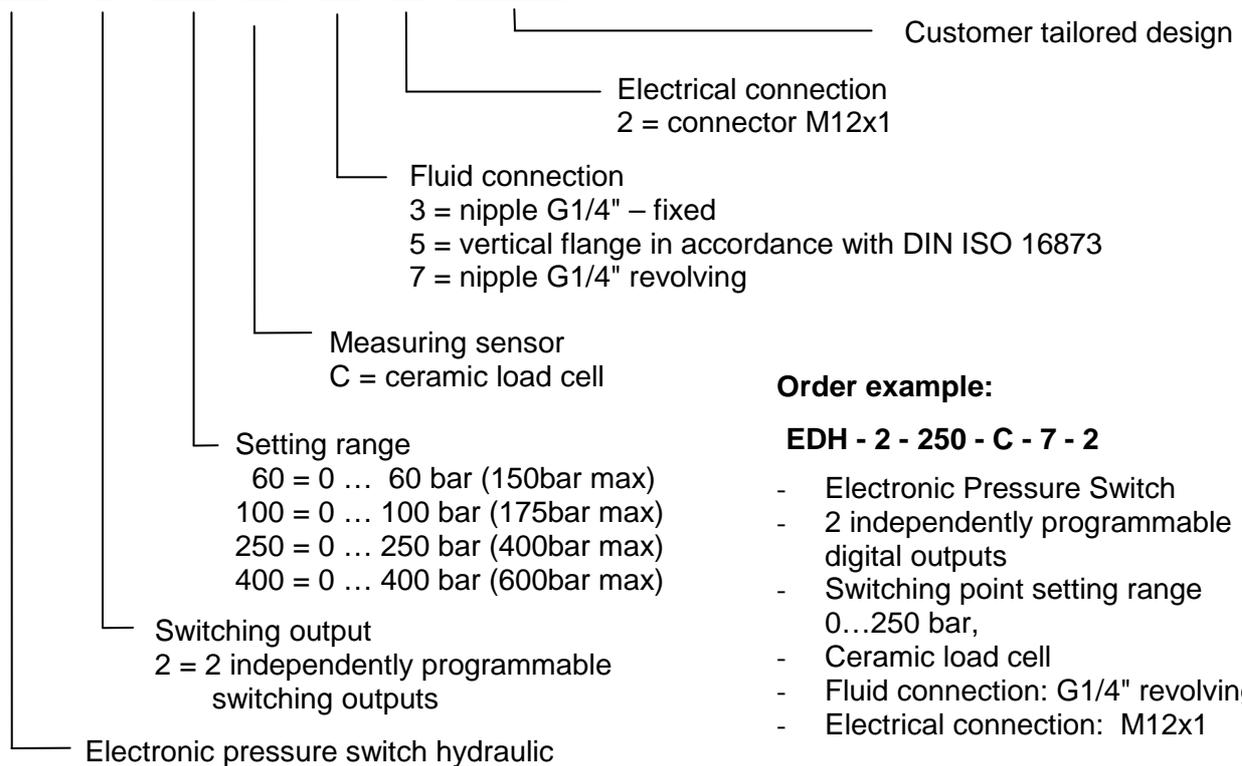
Function threshold comparator / window comparator



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

EDH - 2 - XXX - C - X - 2 - GE xxx



Order example:

EDH - 2 - 250 - C - 7 - 2

- Electronic Pressure Switch
- 2 independently programmable digital outputs
- Switching point setting range 0...250 bar,
- Ceramic load cell
- Fluid connection: G1/4" revolving
- Electrical connection: M12x1

Accessories

Coupler M12 x 1 with cable L = 1.5m

order number 011041

Subject to technical changes!