

Switch 2000

Electr. Dual Pressure Switch

► Pressure



- 0...1 bar to 0...600 bar gauge
- linearity error f. s.
- self monitoring

Barksdale
CONTROL PRODUCTS
CRANE Barksdale, Inc./Barksdale GmbH
A Subsidiary of Crane Co.

Electronic pressure switch for pressure control with internal stainless steel diaphragm, digital display, 2 solid state contacts or 1 solid state plus 1 analog output, linearity error 0.5 % f. s.

Features

7-segment LED display, microprocessor controlled, self monitoring with error display
All parameters are configured by keypad, adjustable keypad lock, rugged construction, vibration and shock-proof, long-term stability

Measuring ranges

0...1 bar to 0...600 bar gauge

Applications

OEM applications in hydraulic and pneumatic systems, press construction, lubricant monitoring, apparatus engineering, machine/machine tool industry, automobile industry, injection molding machines

Technical Data

Sensor element:	Piezoresistive silicon measuring cell
Materials: Wetted parts: Electronics housing: Seals:	Stainless steel, mat. no. 1.4301 Aluminum die-cast FKM
Operating elements:	3 easy-response pushbuttons
System of protection:	IP65
Protection class:	III
Process connection:	G1/4 M
Dimensions:	36 x 130 mm (without plug connector)
Weight:	approx. 200 g
Measuring ranges [bar]:	10 50 100 200 400 600
Proof pressure [bar]:	15 75 150 300 600 800
Linearity error:	<±0.5 % v. f. s. at +25 °C
A/D converter: Resolution: Scanning rate:	10 bit (1024 steps per measuring span) 200/s
Electrical connection:	Plug M12 x 1, 4-pin
Temperature influence:	<±0.2 % v. f. s. / 10K
Compensation range:	-10 °C...+70 °C
Repeatability:	±0.1 % v. f. s.
Temperature range: Medium: Electronics: Storage:	-25 °C...+100 °C -10 °C...+70 °C -30 °C...+80 °C



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Power supply:	15...32 V DC, reversed polarity protected (SELV, PELV)
Digital display: Display range: Display rate:	3-digit 7-segment LED display, red, digit height 10 mm -1 ... 999 20/s
Error display:	LED yellow and alphanumeric display
Power consumption:	approx. 50 mA (without load)
Analog output: Current output: Load: Load influence: Scanning rate: Voltage output: Rating: Adjustment range:	4...20 mA max. RI = (Ub-12 V)/20 mA RI = 600 Ohm at Ub = 24 V DC 0.3 %/100 Ohm 5 ms 0...10 V DC max. 10 mA 25 %... 100 % f. s.
Transistor switching outputs PNP: Switching function: Adjustment range for switching point and hysteresis: Switching frequency: Delay Status display(s):	Normally open/normally closed, standard / window mode and diagnosis function adjustable 0 %... 125 % f. s. max. 100 Hz max. 500 mA, short-circuit proof 0.0 s ... 9.9 s adjustable LED(s) green
Accessories:	Adapter for pressure switch adjustment, damping screw, plug connector
Approvals:	cULus: file no. E42816

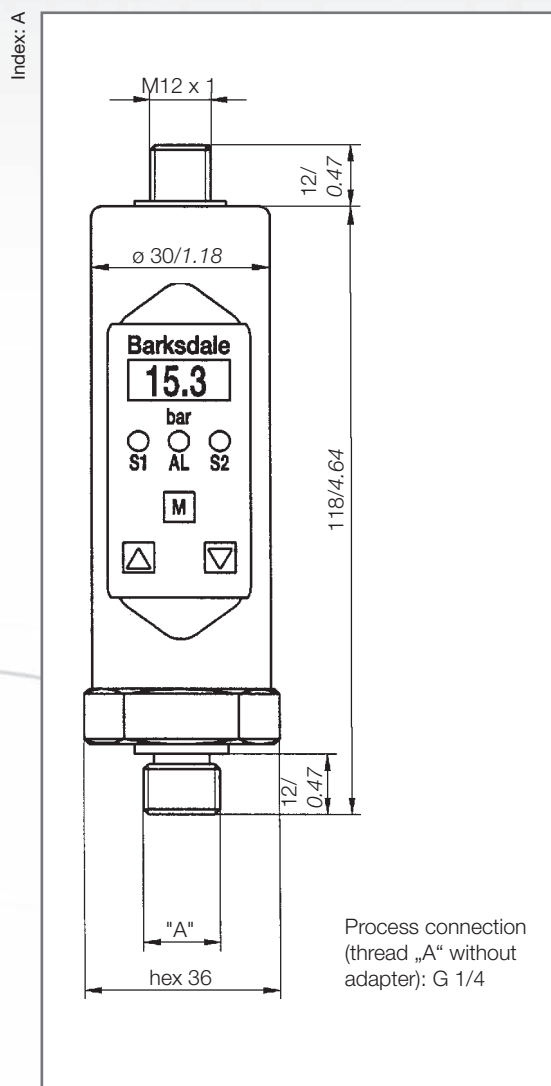
Specifications are subject to changes without notice.

Pressure

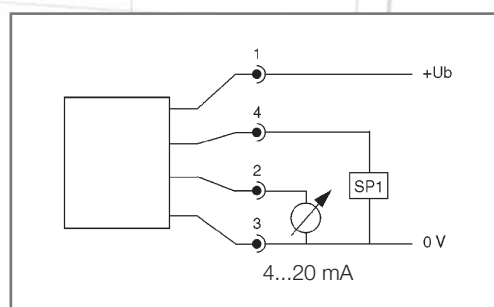
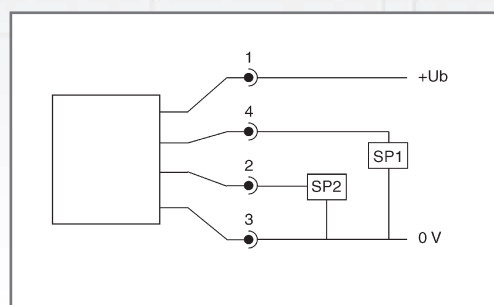
Electr. Dual Pressure Switch

Type Switch 2000

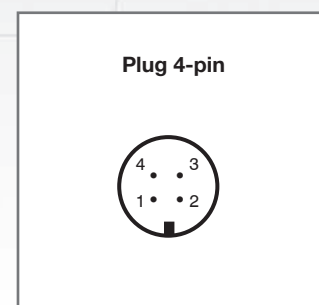
Dimensions (in mm / inch)



Connection diagram



Plug



Order Numbers

Pressure range	0...10 bar	0...50 bar	0...100 bar	0...200 bar	0...400 bar	0...600 bar
2 switching outputs	0428-017	0428-018	0428-019	0428-020	0428-021	0428-022
1 switching output						
1 analog output 4...20 mA	0428-127	0428-128	0428-129	0428-130	0428-131	0428-132

Further measuring ranges on request

Accessories

Order Number	Description
0499-016	Adapter G1/4 IG - G1/4 male thread for optimum alignment of pressure switch
901-0677	Damping screw with 0.2 mm restriction against quick pressure changes and high pulsation rate
907-0357	Plug connector M12 x 1, 4-pin, with screw terminals, angled
907-0344	Plug connector M12 x 1, 4-pin, with screw terminals, straight

Experts

Specialists for monitoring and control of:

- ▶ Pressure
- ▶ Temperature
- ▶ Level
- ▶ Flow

Almost sixty years of experience in the area of mechanical and electronic control of liquid media and responding to customers needs have resulted in an extensive range of products to meet a wide range of applications. Barksdale's priority is clear. It is our commitment to quality instrumentation and exceptional customer service that has remained the cornerstone of our success. Based on our innovative and market-focused technologies in the areas of pressure, level, flow and temperature measuring processes we provide solutions that fit.



Global Presence



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