

Compact-Pressure Switch

Series 9000

Mechanical pressure switch in piston design with 30 x 30 x 92 mm front face and precise switching point setting

Features

- High-quality materials
- 100% functional test
- Compact design
- Long pressure spring (precisely adjustable)
- G1/4" female thread
- Set screw captive

Adjustment ranges

- 2 ... 400 bar

Applications

- OEM applications
- Mobil- and industrial hydraulics
- Test bed and apparatus engineering
- Heavy industry
- Shipbuilding



Technical Data

Wetted parts ¹⁾	sealing: PTFE /FKM / EPDM / NBR diaphragm: NBR fitting: AlMg4,5Mn piston: steel (100Cr6)
Repeatability	±2% (typically)
Switching rate	max. 60/mim
Temperature range storage piston switch diaphragm switch	-40 °C ... +80 °C (-40 °F ... +176 °F) -20 °C ... +80 °C (-4 °F ... +176 °F) -10 °C ... +80 °C (14 °F ... +176 °F)
Protection class	IP65
Housing standard optional	Aluminium Stainless steel 1.4305 / AISI 303, Version - VA
Process connection	G1/4" female thread DIN ISO 228-1

Electrical connection	EN 175301-8013-A plug (formerly DIN 43650)
Weight	175 g (0.39 lbs)
Micro switch	(SPDT) silver contacts
Set screw standard optional	Aluminium Stainless steel 1.4305 / AISI 303 (SW5), capitve
Approvals	BV, DNV

¹⁾ Suitable media: All common hydraulic oils and fluid greases, and, with restrictions, aqueous media or gases. For more information, see operating manual.

Pressure Ranges and Proof Pressures

Pressure range code [bar]	Adjustment range (Increasing pressure) [bar]	Adjustment range (Decreasing Pressure) [bar]	Max. hysteresis at full range max %	Max. operating pressure [bar]	Proof pressure (short term) [bar]
02	2 ... 16	1.5 ... 14	≤ 18%	40	60
03	3 ... 30	1.5 ... 27	≤ 10%	40	60
1	10 ... 50	6 ... 44	≤ 18%	250	300
2	20 ... 200	15 ... 185	≤ 10%	250	300
3	40 ... 400	35 ... 360	≤ 10%	500	600

Process Connection / Electrical Connection / Seal

Process Connection	Electrical Connection	Seal
(2) G1/4" IG DIN ISO 228-1	(PL1) Plug, 4-pin acc. to EN 175301-803-A	(V) FKM
(3)* G1/4" IG DIN ISO 228-1 with 2 mounting holes (Ø 5,5mm / 20mm distance)		(B) NBR
(4)* Flange connection, housing only in VA (SS)		(E) EPDM

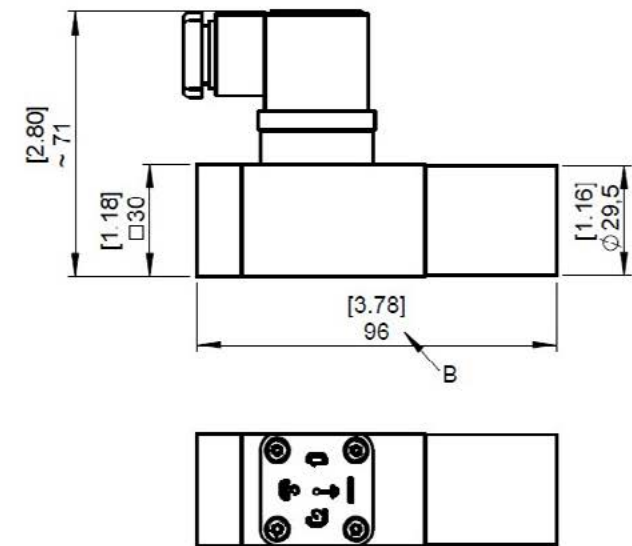
* 90° offset process connection on request

Compact-Pressure Switch

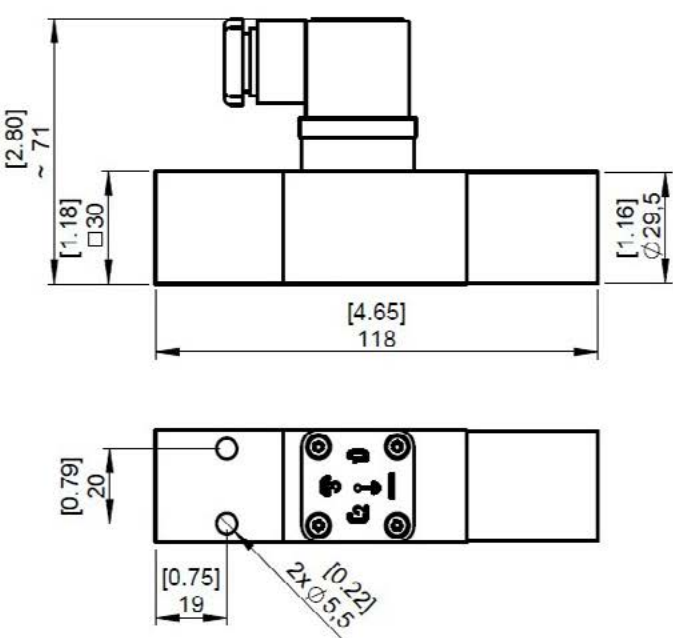
Series 9000

Dimensions (mm / inch)

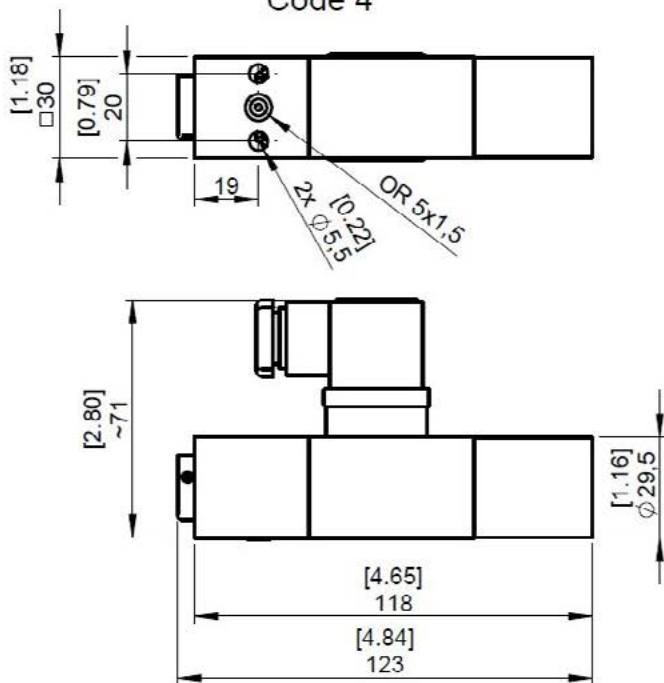
Code 2



Code 3

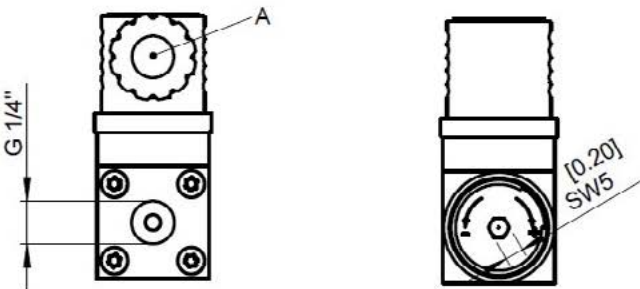


Code 4



Code 2 / Code 3

Code 2 / Code 3 / Code 4



A	Kabel Ø 6...8 / Cable Ø0.23...0.31 (Pg 11)
B	Membranversion / diaphragm version L=102 [4.02]

Wiring and connection diagram

930-0130 A

	PL1
C	1
NC	2
NO	3
PE	---

Compact-Pressure Switch

Series 9000

Electrical Ratings

Micro switch	Special features	Volt AC 50/60 Hz	Ind. Last A	Res. Last A	Volt DC	Ind. Last A	Res. Last A	Minimum capacitance
1	Silver contact	250 V ~	2.5	10,0	25 V=	1.0	6.0	20 mA bei 24 VDC

Options

Code	Version
VA	Stainless Steel AISI 303, only for process connection code 3

Approvals

GL	BV, DNV
----	---------

Order Code

Base modell								
9								
9	Process connection							
	2	G1/4" IG DIN ISO 228-1						
	3	G1/4" IG DIN ISO 228-1 with 2 mounting holes (Ø 5,5mm / 20mm distance)						
	4	Flange connection, housing only in VA (SS)						
	Pressure Ranges, decreasing (increasing), bar							
	02	1.5 ... 14 (2 ... 16) diaphragm version						
	03	1.5 ... 27 (3 ... 30) diaphragm version						
	1	6 ... 44 (10 ... 50) piston version						
	2	15 ... 185 (20 ... 200) piston version						
	3	35 ... 360 (40 ... 400) piston version						
	Micro Switch Contact							
	1	Silver contact						
	Electrical Connection							
	-PL1	Cube plug DIN EN 175301-803A (IP65)						
	Sealing							
	-B	NBR (fluid temp. range -20°...+80°C)						
	-E	EPDM (fluid temp. range -40°...+80°C) - not for diaphragm						
	-V	FKM (fluid temp. range -20°...+80°C) - not for diaphragm						
	Options							
	-VA	Housing 1.4305 (for process connection 3 & 4 only)						
	Approvals							
	-GL	Marine approval						
Example								
9	3	2	1	-PL1	-B	-VA	-GL	



Hitma Instrumentatie
www.hitma-instrumentatie.nl
info@hitma-instrumentatie.nl
+31 (0)297 - 514 833

België / Belgique
www.hitma-instrumentatie.be
info@hitma-instrumentatie.be
+32 (0)2 - 387 28 64