

# Compact Pressure Switches

## 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

10...400 bar

### Applications

OEM applications,  
Mobile and industrial hydraulics,  
Test bed and apparatus engineering,  
Heavy industry,  
Shipbuilding



### Technical Data

<b>Wetted parts:</b>	sealing: PTFE/FKM fitting: Stainless Steel / Aluminium piston: steel (100Cr6)
<b>Repeatability:</b>	±2% (typically)
<b>Switching rate:</b>	max. 60/min.
<b>Temperature range:</b>	
storage:	-40 °C ... +80 °C (-40 °F ... +176 °F)
piston switch:	-20 °C ... +80 °C (-4 °F ... +176 °F)
<b>Protection class:</b>	IP65
<b>Housing:</b>	
standard:	Aluminium
optional:	Stainless steel (1.4305) / AISI 303, Version - VA

<b>Process connection:</b>	G1/4" female thread DIN ISO 228-1
<b>Weight:</b>	175 g (0.39 lbs)
<b>Electrical connection:</b>	EN 175301-8013-A plug (formerly DIN 43650)
<b>Micro switch:</b>	(SPDT) silver contacts
<b>Set screw:</b>	
standard	Aluminium
optional	Stainless steel, 1.4305 / AISI 303 (SW5), captive
<b>Approvals:</b>	GL, BV others on request

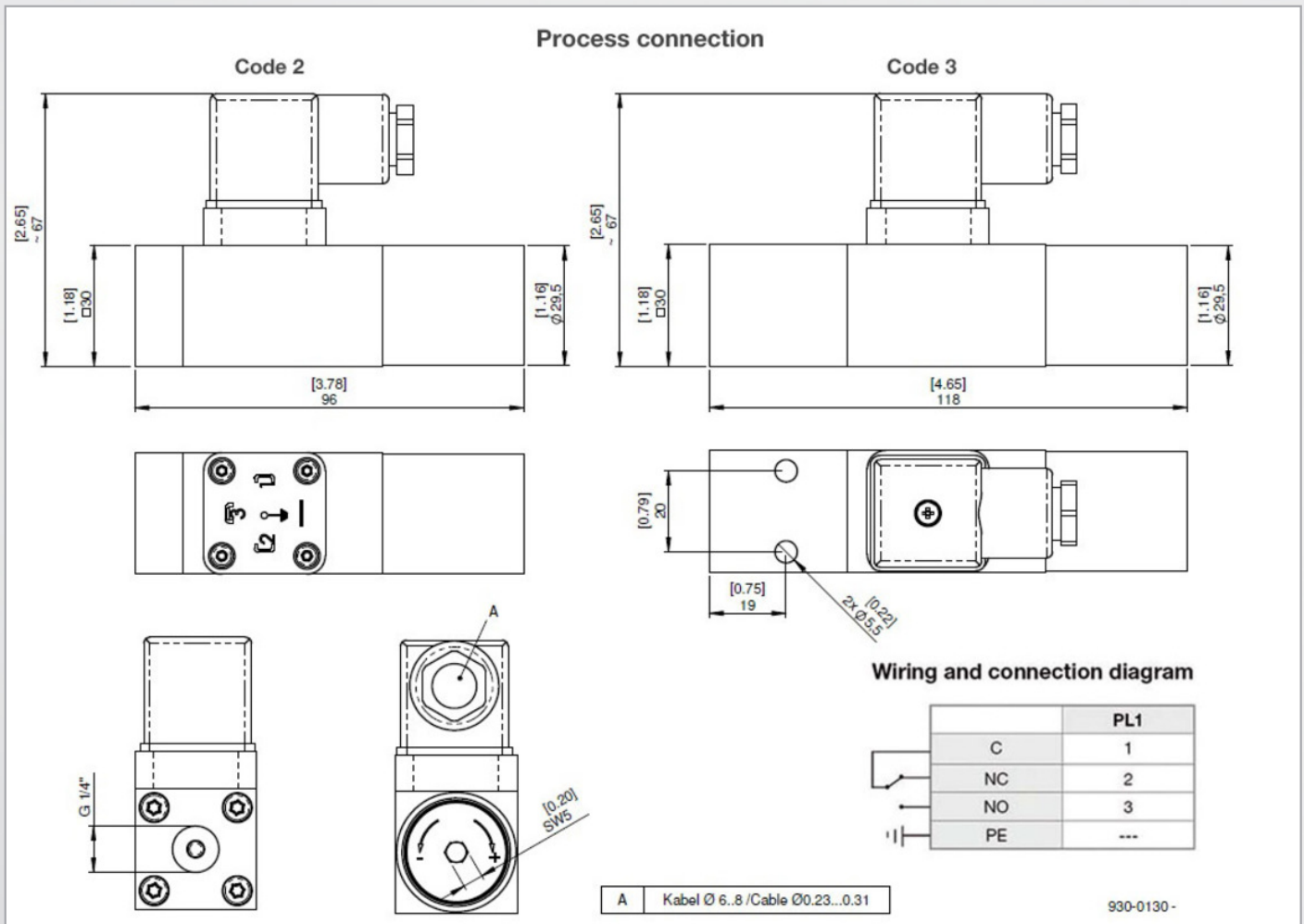
### Pressure Ranges

Pressure range code [bar]	Adjustment range		Max. hysteresis at full range max %	Max. operating pressure [bar]	Proof pressure [bar] (short term)
	Decreasing press. [bar]	Increasing press. [bar]			
1	6 ... 44	10 ... 50	10%	250	300
2	15 ... 185	20 ... 200		250	300
3	35 ... 360	40 ... 400		500	600

### Process Connection / Electrical Connection / Seal

Process connection	Electrical connection	Seal
(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)	(PL1) Plug, 4-pin acc. to EN 175301-803-A	(V) FKM (B) NBR (E) EPDM

### Dimensions (mm / inch)



### Electrical Ratings

Micro switch	Special features	Volt AC 50/60 Hz	Ind. Load A	Res. Load A	Volt DC	Ind. Load A	Res. Load A	Minimum capacitance
1	Silver contacts	250 V~	2.5	10.0	24 V=	1.0	6.0	20 mA at 24 VDC

### Approvals

GL	Germanischer Lloyd
BV	Bureau Veritas

### Order Code

Example for order number

Type	Process connection	Pressure range	Micro switch contact	Electrical connection	Seal	Approvals
9	2	2	1	PL1	V	GL

Your order number

9	2		1	PL1		
---	---	--	---	-----	--	--