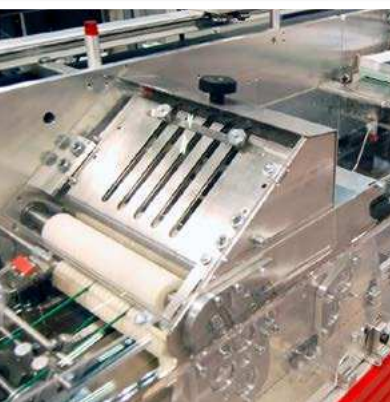


Pressure switch DSA

For use in single-line lubrication systems



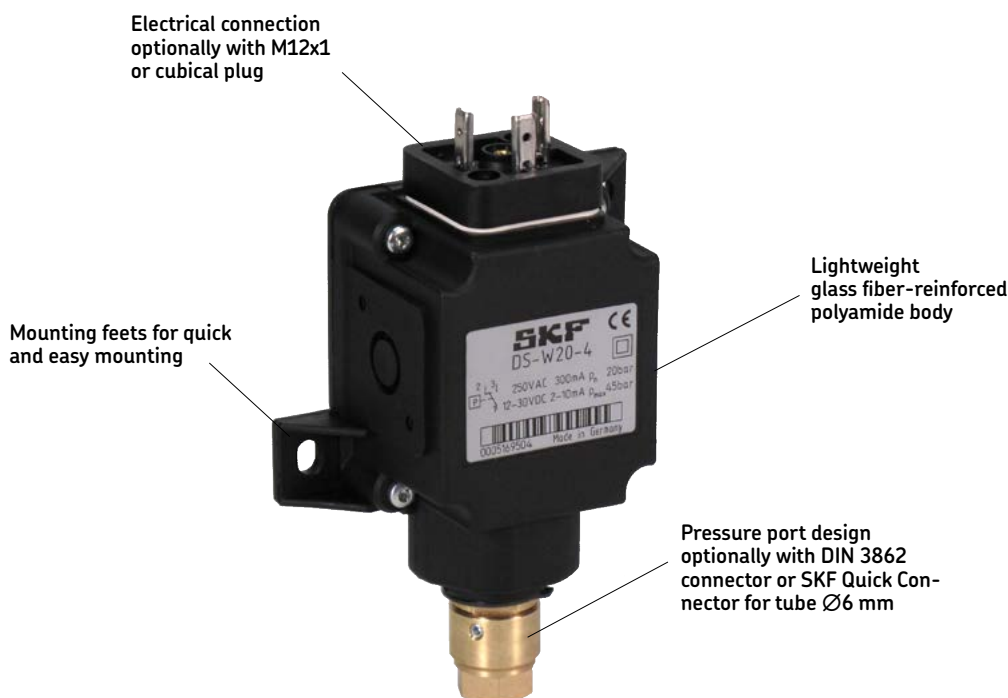
	Oil and fluid grease NLGI 000-0
	up to 45 bar (650 psi)
	+10 to +60 °C (+50 to 140 °F)
	DIN 3862 connector for Ø6 mm tube
	M12x1 or cubical plug



Applications

- Machine tools
- Printing machines
- Wind
- Vehicle
- Steel and heavy industries

Product information



Description

DSA pressure switches monitor the pressure of a lubrication system and help assess its proper function. They monitor parameters as pressure buildup, pressure head and pressure reduction e.g. in intermittently operated lubrication systems with single-line oil metering devices. Switching pressures are factory set for plug&play operation. The pressure cell containing the membrane and the pressure plunger are assembled with the microswitch in compact plastic housings. The housings are made of glass fiber-reinforced polyamide and contain mounting feet for quick and easy mounting.

Features and benefits

- Easy to wire and install
- Simple and efficient design
- Cost-efficient market proven solution
- Micro switch for reliable switching function
- Change-over switch, suitable for both normally closed contact (NC) and normally open contact (NO)
- Switching pressure factory set for plug&play operation
- Available for rising and falling pressures from 1 to 30 bar (14.5 to 435 psi)

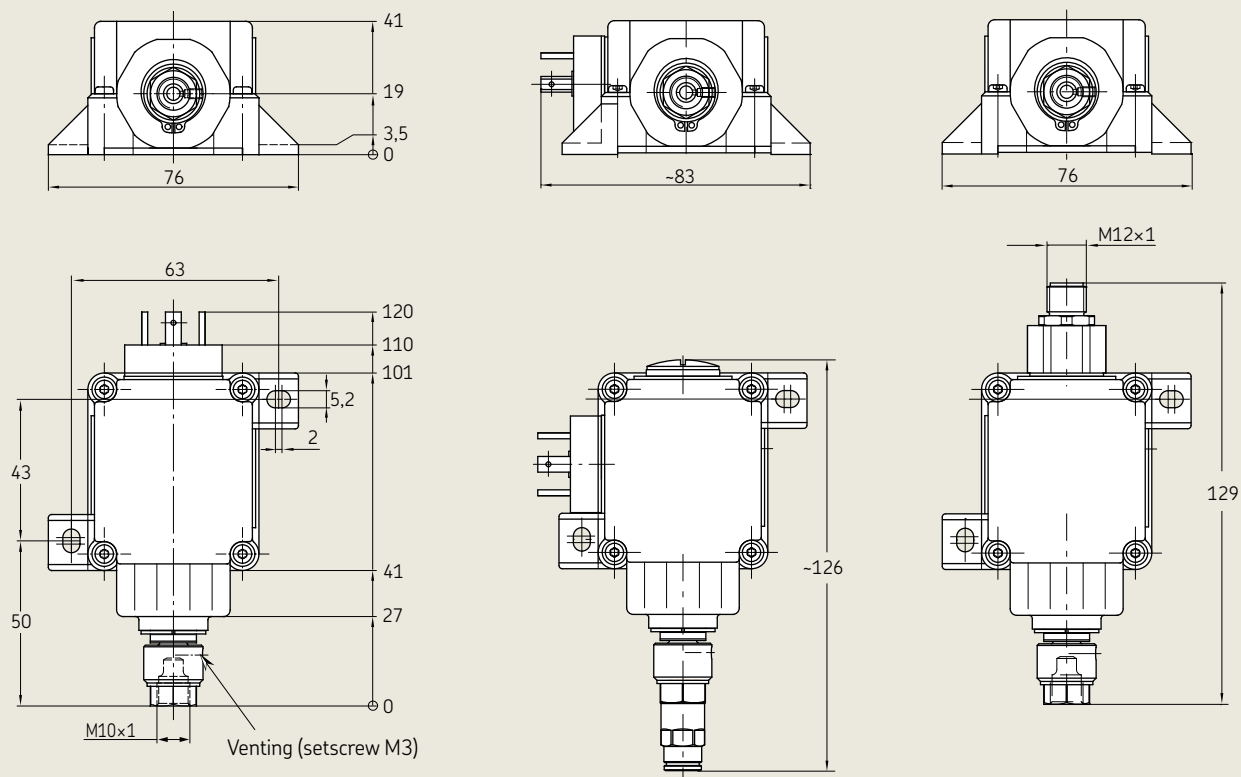
Technical data

Function principle	diaphragm pressure switch
Lubricant	oil and fluid grease NLGI 000-0, oiled compressed air
Operating temperature	10 to 60 °C; 50 to 140 °F
Operating pressure ¹⁾	max. 45 bar; 650 psi
Switching pressure range	1-30 bar; 14.5-435 psi
Switching pressure tolerances	1 bar +0.3; 2 bar +0.5; 3 bar -0.5; 5 bar ±0.5; ≥ 8 bar +0.5/-1.5
Switching rate	max. 30 switching cycles per min
Operating voltage	max. 250 VAC; max. 30 VDC
Operating current	max. 300 mA, min. 2 mA
Safety class	II (IEC 61140)
Breaking capacity	max. 125 VA
Pressure port	DIN 3862 connector or SKF Quick Connector for tube Ø6 mm
Electrical connection	M12x1 or cubical plug
Switch type	micro switch
Contact type	change-over
Mechanical service life	5 × 10 ⁶ switching cycles
Materials:	
Housing	PA6 6GF30
Contact	AuAg25Pt6
Membrane	FKM (FPM)
Protection class	IP 65
Dimensions	min. 76 × 120 × 41 mm max. 83 × 129 × 41 mm min. 3.0 × 4.7 × 1.6 in max. 3.3 × 5.1 × 1.6 in
Mounting position	any

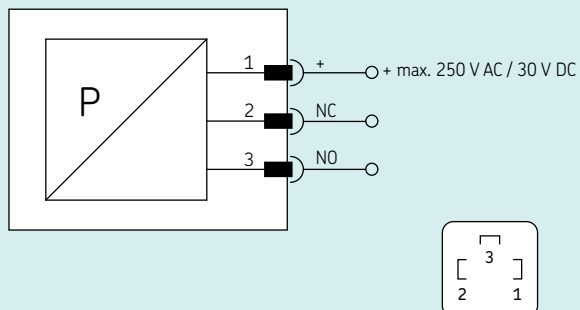
¹⁾ A pressure regulating valve must be installed in the system to prevent operating pressure from exceeding the permissible level.

Drawings and plans

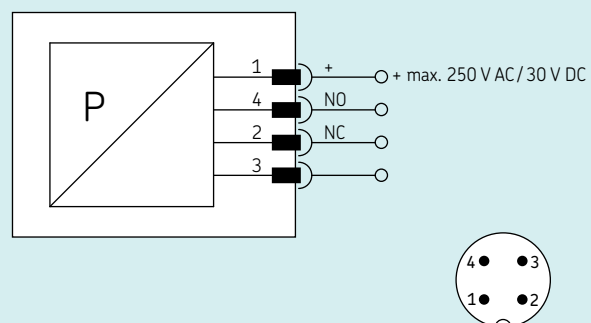
Technical drawing



Electrical connection cubical plug



Electrical connection M12x1



Order information

Identification code	D	S	A	1	-				W	-				A
Product series DS														
Pressure switch type A														
Switching direction														
S = switch on increasing pressure F = switch on decreasing pressure														
Rated switching pressure ¹⁾														
01 = 1 bar (14 psi) 02 = 2 bar (29 psi) 03 = 3 bar (43 psi) 05 = 5 bar (72 psi) 08 = 8 bar (116 psi) 12 = 12 bar (174 psi) 18 = 18 bar (261 psi) 20 = 20 bar (290 psi) 25 = 25 bar (362 psi) 30 = 30 bar (435 psi)														
Type of contact														
W = change-over														
Pressure port														
1 = DIN 3862 connector for tube Ø6 mm (solderless pipe union) 2 = SKF Quick Connector for tube Ø6 mm														
Position of electrical connection														
M = middle R = right L = left														
Electrical connection														
1 = DIN EN 175301-803 A (DIN plug) 2 = M12x1 circular plug (only available for design with position of electrical connection "middle")														
Switching voltage, max.														
A = 250 VAC, 30 VDC														

1) Switching pressure tolerances 1 bar^{+0.3}; 2 bar^{+0.5}; 3 bar^{-0.5}; 5 bar^{±0.5}; ≥ 8 bar^{+0.5/-1.5}

skf.com/lubrication

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CAD models:
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