Pneumatic Pressure Switches
G 1/4, 1/4 NPT, Flange

- **Gold-plated contacts in microswitch**
- **High number of switching cycles**
- **Vibration resistant to 15g**
- **Microswitch approved by UL and CSA**
- **Intrinsically safe operation**



Technical Data

Fluid:
Neutral, gaseous and liquid fluids
(Special versions for water application)

Operation:
Diaphragm

Port sizes:
G1/4 (BSP), 1/4 NPT, Flange

Operating Pressure Ranges:
-1 to 30 bar

Ambient Temperature:
-10 to + 80°C (NBR)
0 to + 80°C (FKM)

Operating Viscosity:
Up to 1000 mm^2/s (±450ssu).

Fluid Temperature:
-10 to +80°C (NBR)
0 to + 80°C (FKM)

Maximum temperature at switching element:
+80°C

Repeatability:
±3%, for vacuum ± 4% of final value

Electrical Connection:
- Acc. to DIN 43650 A or
- Acc. to IEC 947-5-2 (M 12 x 1)

Switching Element:
Microswitch (gold plated contacts)

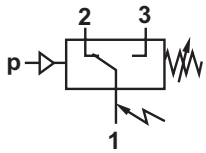
Degree of Protection:
IP65 for conn. DIN 43650
IP67 for conn. M 12 x 1

Mounting:
Optional

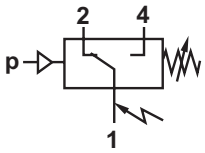
Material:
- Sensor: Aluminium
- Seal: FKM / NBR

Ordering Information

To order, quote part number from table overleaf, e.g. a $G^1/_4$" ported switch with a pressure range of -1 to 0 bar is 0880100.



Switching function:
Microswitch SPDT
Terminals 1 - 3:
Contacts close on rising pressure.
Terminals 1 - 2:
Contacts open on rising pressure.



Switching function
M12 x 1:
Microswitch SPDT
Terminals 1 - 4:
Contacts close on rising pressure.
Terminals 1 - 2:
Contacts open on rising pressure.

Pneumatic applications / 18 D variations with electrical connection DIN 43650 A

Part Number	Pressure Range (bar) ††	Switching Pressure Difference ** (bar) ††		Maximum Over Pressure * (bar) ††	Switching (Cycles per min)	Pressure Sensor Materials		Fluid Connection		Weight (kg)	Dimension Drawing No.
		Lower Range	Upper Range			Housing	Seal Dyn./Static	Type	Size		
0880100	-1 – 0	0,15	0,18	80	100	AL	FKM †	Female	G1/4	0,2	01
0880110	-1 – +1	0,25	0,35	80	100	AL	FKM †	Female	G1/4	0,2	01
0880120	-1 – 0	0,15	0,18	80	100	AL	FKM †	Female	1/4 NPT	0,2	01
0880126 Δ †††	-1 – 0	0,15	0,18	80	100	AL	FKM †	Female	G1/4	0,2	01
0881100	-1 – 0	0,15	0,18	80	100	AL	FKM †	Flange	-	0,2	03
0880200	0,2 – 2	0,15	0,27	80	100	AL	FKM †	Female	G1/4	0,3	01
0880220	0,2 – 2	0,15	0,27	80	100	AL	FKM	Female	1/4 NPT	0,2	01
0880226 Δ †††	0,2 – 4	0,2	0,5	80	100	AL	FKM	Female	G1/4	0,2	01
0881200	0,2 – 2	0,15	0,27	80	100	AL	NBR	Flange	-	0,2	03
0880300	0,5 – 8	0,25	0,65	80	100	AL	NBR	Female	G1/4	0,2	02
0880320	0,5 – 8	0,25	0,65	80	100	AL	NBR	Female	1/4 NPT	0,2	02
0880326 Δ †††	0,5 – 8	0,25	0,65	80	100	AL	NBR	Female	G1/4	0,2	02
0881300	0,5 – 8	0,25	0,65	80	100	AL	NBR	Flange	-	0,2	03
0880400	1 – 16	0,30	0,90	80	100	AL	NBR	Female	G1/4	0,2	02
0880420	1 – 16	0,30	0,90	80	100	AL	NBR	Female	1/4 NPT	0,2	02
0880426 Δ †††	1 – 16	0,30	0,90	80	100	AL	NBR	Female	G1/4	0,2	02
0881400	1 – 16	0,30	0,90	80	100	AL	NBR	Flange	-	0,2	03
0880600	1 – 30	1,0	5,00	80	100	AL	NBR	Female	G1/4	0,2	02
0880620	1 – 30	1,0	5,00	80	100	AL	NBR	Female	1/4 NPT	0,2	02

Pneumatic applications
18 D variations with electrical connection M 12 x 1*** (Max. allowable voltage 30 V)

Part Number	Pressure Range (bar) ††	Switching Pressure Difference ** (bar) ††		Maximum Over Pressure * (bar) ††	Switching (Cycles per min)	Pressure Sensor Materials		Fluid Connection		Weight (kg)	Dimension Drawing No.
		Lower Range	Upper Range			Housing	Seal Dyn./Static	Type	Size		
0880149 ΔΔ/Δ	-1 – 0	0,15	0,18	80	100	AL	FKM	Female	G1/4	0,2	04
0880160 Δ	-1 – 0	0,15	0,18	80	100	AL	FKM	Female	G1/4	0,2	04
0880260 Δ	0,2 – 2	0,15	0,27	80	100	AL	FKM	Female	G1/4	0,2	04
0880360 Δ	0,5 – 8	0,25	0,65	80	100	AL	FKM	Female	G1/4	0,2	06
0880460 Δ	1 – 16	0,30	0,90	80	100	AL	FKM	Female	G1/4	0,2	06
0880660 Δ	1 – 30	1,00	5,00	80	100	AL	FKM	Female	G1/4	0,3	06
0881160 Δ	-1 – 0	0,15	0,18	80	100	AL	FKM	Flange	-	0,2	05
0881260 Δ	0,2 – 2	0,15	0,27	80	100	AL	FKM	Flange	-	0,2	05
0881360 Δ	0,5 – 8	0,25	0,65	80	100	AL	FKM	Flange	-	0,2	05
0881460 Δ	1 – 16	0,30	0,90	80	100	AL	FKM	Flange	-	0,2	05

Water applications / 18 D variations with electrical connection DIN 43650

Part Numbe	Pressure Range (bar) ††	Switching Pressure Difference ** (bar) ††		Maximum Over Pressure * (bar) ††	Switching (Cycles per min)	Pressure Sensor Materials		Fluid Connection		Weight (kg)	Dimension Drawing No.
		Lower Range	Upper Range			Housing	Seal Dyn./Static	Type	Size		
0880219	0,2 – 2	0,15	0,27	80	100	Brass	FKM	Female	G1/4	0,2	01
0880240	0,2 – 2	0,15	0,27	80	100	Brass	FKM	Female	1/4 NPT	0,2	01
0880323	0,5 – 8	0,25	0,65	80	100	Brass	FKM	Female	G1/4	0,2	02
0880340	0,5 – 8	0,25	0,65	80	100	Brass	FKM	Female	1/4 NPT	0,2	02

* Observe switching range. Do not subject switch to max. allowable pressure during normal operation. Even short pressure peaks must not exceed this value.

** Max. values.

*** Plug not supplied. If required see table overleaf.

† Static seal: O-ring (NBR)

†† 1 bar = 14.503 psi.

Δ Free of laquer impairing substances.

ΔΔ Switching function reversed (Signal with rising vacuum).

††† Plug 0570110 not included. Pls. order sep.

Key to materials: Al = Aluminium
NBR = Perbunan
FKM = Viton