Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Mechanical Differential Pressure Switches

measuring • monitoring • analysing

SCH-28

- Setting range: 0.1 ... 1 bar to 0.2 ... 10 bar
- Temperature: Max. +100 °C
- Material: Stainless steel
- Connection: G ½ male, ½" NPT male, ¼" NPT female, ½" NPT female

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Description

These differential pressure switches are IP65, and suitable for a variety of applications such as: food industry, cannery, pharmaceutical, petrochemical, conventional and nuclear power station where it is required to control differential pressure, level, flow. The sensing element is a metallic diaphragm with two metallic bellows and acts directly on the microswitch through a self-centering pivot. The simplicity of the design, without levers, cams or similar mechanism, gives the unit an exceptionally long working life.

Technical Data

Ranges:	0...1 bar / 0...10 bar
Electrical specifications:	1...2 SPDT microswitches (see microswitches table)
Differential (dead band):	Fixed (value as per setting range table), adjustable (microswitch code E/F) from10% ... 50% of setting range
Repeatability:	≤ 1% of the full setting value
Set-point adjustment:	Internal, micrometric adjustable
Protection:	IP 65 as per IEC 529
Electrical wiring:	Terminal strip
Earth contacts:	1 internal and 1 external
Process temperature:	Max. 100 °C (+212 °F)
Ambient temperature:	-25 ... +65 °C (-13 ... +149 °F)
Thermal drift:	≤ 0.05% / °C (≤ 0.027% / °F)
Process connection:	AISI 316 stainless steel
Elastic element:	AISI 316 stainless steel diaphragm with AISI 321 stainless steel bellows; PTFE gasket
Case:	AISI 304 stainless steel
Cover:	AISI 304 stainless steel, bayonet lock
Flushing plugs:	AISI 316 stainless steel
Tag:	AISI 304 stainless steel, etched
Weight:	3.7 kg

Setting Ranges

Code	Setting range	One side static pressure	Both side static pressure	Differential 1 micro[1)]	Differential 2 micro[1)]
B2	0.1...1 bar	10 bar	25 bar	60 mbar	80 mbar
B4	0.1...2.5 bar	15 bar	25 bar	60 mbar	80 mbar
B5	0.2...4 bar	15 bar	25 bar	70 mbar	100 mbar
B6	0.2...6 bar	15 bar	25 bar	100 mbar	150 mbar
B7	0.2...10 bar	15 bar	25 bar	120 mbar	170 mbar

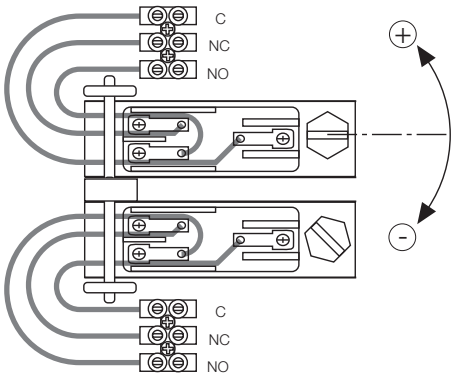
[1)] differential and minimum set-point values for microswitches cod. I, L, N, R, U, V are 300% of those shown in table

Order Details (Example: **SCH-28 B2 A I2 1 B**)

Model	Range	Microswitch Type	Process Connection (F)	Electrical Connection (F1)	Options
SCH-28	**...B2...** = 0.1...1 bar **...B4...** = 0.1...2.5 bar **...B5...** = 0.2...4 bar **...B6...** = 0.2...6 bar **...B7...** = 0.2...10 bar	**...A** = standard, single **...B** = standard, double **...I** = goldplated, single **...L** = goldplated, double **...M** = inert gas filled, single **...P** = inert gas filled, double **...N** = goldplated and inert gas filled, single **...R** = goldplated and inert gas filled, double ...**E** = adjustable differential, single ...**F** = adjustable differential, double **...U** = inert gas filled VDC, single **...V** = inert gas filled VDC, double	**I2** = ¼-18 NPT F **N4** = ½-14 NPT **I4** = ½-14 NPT F **G4** = G ½ A	**1** = R ½-ISO 7/1 **2** = R ¾-ISO 7/1 **3** = ½-14 NPT **4** = ¾-14 NPT **A** = M 20 x 1.5	**N** = none **B** = bottom connection **S** = degreasing for oxygen **M** = 2"stake's mounting bracket **W** = wall mounting bracket **T** = tropicalisation **Y** = special (specify in clear text)

1/02 - 2013

Set-point Adjustment



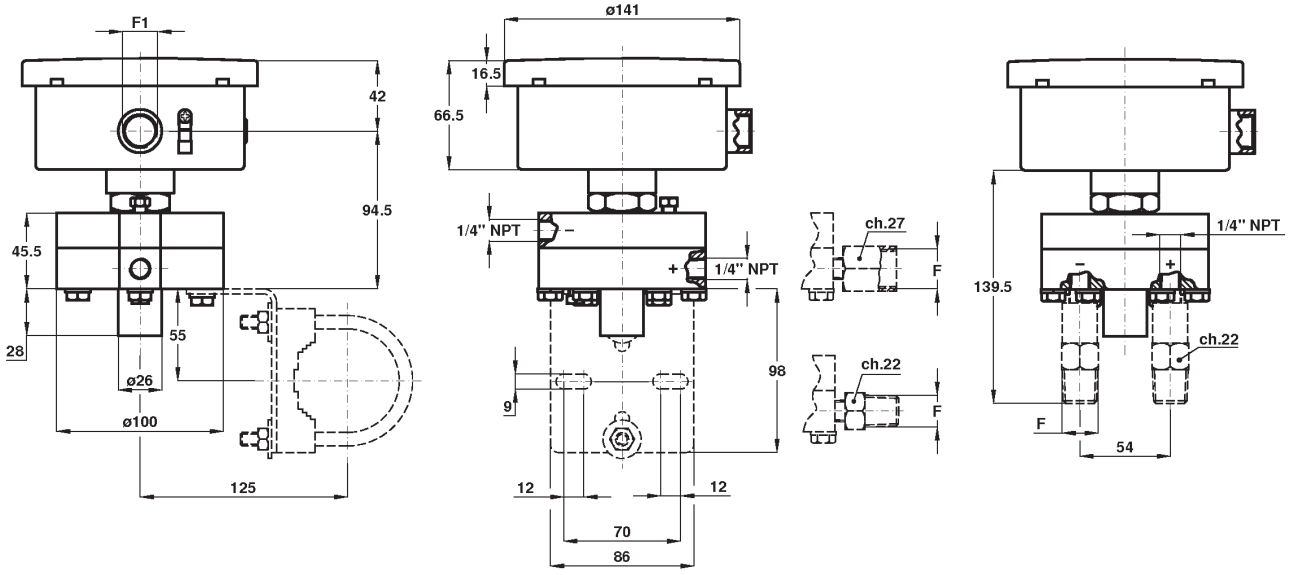
Microswitch Electrical Rating

Ohmic load

Single	Double	Type	250V_{AC}	125 V_{AC}	24 V_{DC}
A	**B**	standard	15 A	15 A	0.1 A
I	**L**	goldplated		1 A	0.1 A
M	**P**	inert gas filled	15 A	15 A	0.1 A
N	**R**	goldplated and inert gas filled		1 A	0.1 A
E	**F**	adjustable differential	20 A	20 A	0.1 A
U	**V**	inert gas filled VDC	15 A	15 A	6 A

Dimensions (mm)

Example with 2" bracket yoke mount



F1
1 = R ½ ISO 7/1
2 = R ¾ ISO 7/1
3 = ½-14 NPT
4 = ¾-14 NPT
A = M20 x 1.5

F
I2 = ¼-18 NPT F
N4 = ½-14 NPT
I4 = ½-14 NPT F
G4 = G ½ A

Example with cable entry ½" NPTF and process connection ¼" NPTF with wall bracket