

Metal Diaphragm Pressure Switch

Type **D1T-.../D2T-...**

Mechanical single/dual pressure switch
Repeatability $\pm 1.0\%$ at constant temperature

Features

Metal diaphragm pressure switch
 Switching point can be adjusted with corresponding reference unit during operation,
 very precise switching system,
 same connection data like the previous version

Applications

machine and tool engineering,
 autoclaves,
 pump control,
 refrigerant monitoring,
 chemical industry
 ship building applications



Technical Data

medium-contacting parts:	Stainless steel 17-7PH/SS304
Repeatability:	$\pm 1\%$ at constant temperature
Switching rate:	max. 20/min
Temperature range:	-40 °C... +75 °C
System of protection	IP65
Housing:	powder coated aluminium
Process connection:	1/4" NPT female thread Optional: 1/2" NPT female thread (P2)
Electrical connection:	WAGO terminal and cable gland M20 x 1.5; clamping range $\varnothing 5 \dots 11$ mm

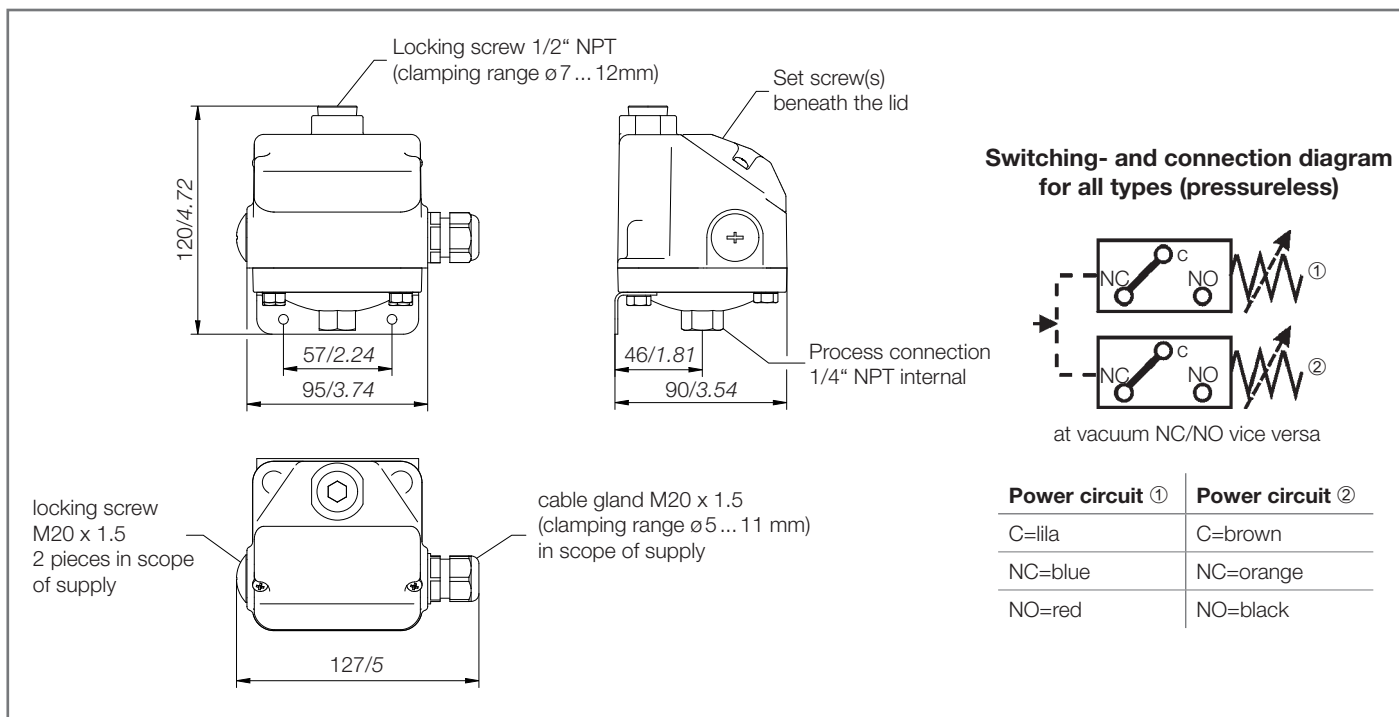
Electrical load capacity and hysteresis:	Many microswitch versions with different switching powers and hysteresis are applicable and make it possible to make customized changes.
Weight:	D1T-...: approx. 1.0 kg D2T-...: approx. 1.1 kg
Switching point adjustment:	Switching point lowers by turning the adjustment screw clockwise.
Inherent safety:	The switches are also applicable for inherent safety applications. Add "Exi" in case of ordering. The following max. values are valid when using those switches: U _{max} = 28 V I _{max} = 50 mA
Approval:	---

Pressure stages

Values shown in red (max. pressure rising) = **max. operating pressure**

Pressure stage code	Adjustment range [bar]		Test pressure [bar]	Max. hysteresis of the different switches in bar (end of range)	
	rising pressure	lowering pressure		H, GH [bar]	M, GM [bar]
Overpressure					
2SS	0.004 ... 0.12	0.001 ... 0.11	0.2	0.004	0.06
3SS	0.006 ... 0.20	0.002 ... 0.19	0.7	0.005	0.01
18SS	0.045 ... 1.25	0.025 ... 1.23	4.0	0.020	0.04
80SS	0.140 ... 5.50	0.030 ... 5.40	10.0	0.110	0.24
150SS	0.290 ... 10.30	0.100 ... 10.20	20.0	0.190	0.42
Vacuum					
3SS	-0,006 ... -0,20	-0,002 ... -0,20	0,2	0,004	0,01
18SS	-0,050 ... -1,00	-0,020 ... -0,97	1,0	0,030	0,06

Dimensions (in mm / inch)



Load capacity

Micro-switch	special features	Volt AC 50/60 Hz	Ind. load A	Res. load A	Volt DC	Ind. load A	Res. load A	Comments
H	Microswitch with silver contacts	125 250	10 10	10 10	6 to 28	0.50	0.5	low change-back values; high AC-/ low DC-load
M	Microswitch with silver contacts	125 250	10 10	10 10	12 24 250	5.00 1.00 0.25	15.0 2.0 0.4	intermediate change-back values; high AC- and DC-loads
GH	Microswitch with gold contacts for low voltage and low current	125	1	1	24	1.00	1.0	low change-back values
gm		30	0.1	0.1	30	0.10	0.1	intermediate change-back values

480 V AC and 15 A only upon request

Options

D1T-...		D2T-...	
ST1	Plug, 3-pin + E, DIN EN 175 301-801-A (prev. DIN 43650)	ST3	Plug, 6-pin + E, DIN 43651
ST2	Amphenol plug 4-pin + E	EXI	for intrinsically safe application
EXI	for intrinsically safe application		

Ordering

Example for order number

Type	Microswitch	Pressure stage	Options
D1T	or D2T	H	3SS - ST2



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