

# Metal Diaphragm Pressure Switches

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

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

## Features

Metal diaphragm pressure switch  
 Wetted parts welded.  
 Direct acting, no friction, high accuracy

## Adjustment ranges

0.005 ... 10.3 bar and  
 -0.006 ... -1 bar (Vaccum)

## Applications

Machine and tool engineering,  
 Autoclaves, pump control,  
 Refrigerant monitoring, chemical industry  
 Ship building applications



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## Technical Data

<b>Wetted parts:</b>	Stainless steel 17-7PH/SS304
<b>Repeatability:</b>	$\pm 1\%$ at constant temperature
<b>Switching rate:</b>	max. 20/min
<b>Temperature range:</b>	-40 °C... +75 °C
<b>Protection class:</b>	IP65
<b>Housing:</b>	powder coated aluminium
<b>Process connection:</b>	1/4" NPT female thread Optional: 1/2" NPT female thread (P2)
<b>Electrical connection:</b>	WAGO terminal and cable gland M20x1.5; clamping range $\varnothing 5... 11$ mm

<b>Electrical load capacity and hysteresis:</b>	Many micro switch versions with different switching powers and hysteresis are available and make it possible to make customized changes.
<b>Weight:</b>	D1T-...: approx. 1.0 kg D2T-...: approx. 1.1 kg
<b>Set point adjustment:</b>	Turn the adjustment screw clockwise to decrease the set point
<b>Intrinsically safe:</b>	The switches are also available for intrinsically safe applications. Add "Exi" in case of ordering. Maximum rating according to ATEX: U <sub>max</sub> = 28 V I <sub>max</sub> = 50 mA
<b>Approval:</b>	---

## Pressure ranges

Pressure range code	Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar] (short term)	Max. hysteresis of the different switches in bar (end of range)	
	Increasing press.	Decreasing press.			H, GH [bar]	M, GM [bar]
Overpressure						
<b>2SS</b>	0.005 ... 0.11	0.001 ... 0.11	0.15	0.2	0.004	0.006
<b>3SS</b>	0.012 ... 0.20	0.002 ... 0.196	0.5	0.7	0.004	0.010
<b>18SS</b>	0.050 ... 1.20	0.030 ... 1.20	3.0	4.0	0.010	0.040
<b>80SS</b>	0.300 ... 5.50	0.030 ... 5.30	8.0	10.7	0.110	0.240
<b>150SS</b>	0.500 ... 10.30	0.100 ... 9.90	15.0	20.0	0.180	0.420
Vacuum						
<b>3SS</b>	-0.006 ... -0.20	-0.002 ... -0.196	0.15	0.2	0.004	0.009
<b>18SS</b>	-0.040 ... -1.00	-0.020 ... -0.970	0.5	1.0	0.020	0.060

Specifications are subject to changes without notice.

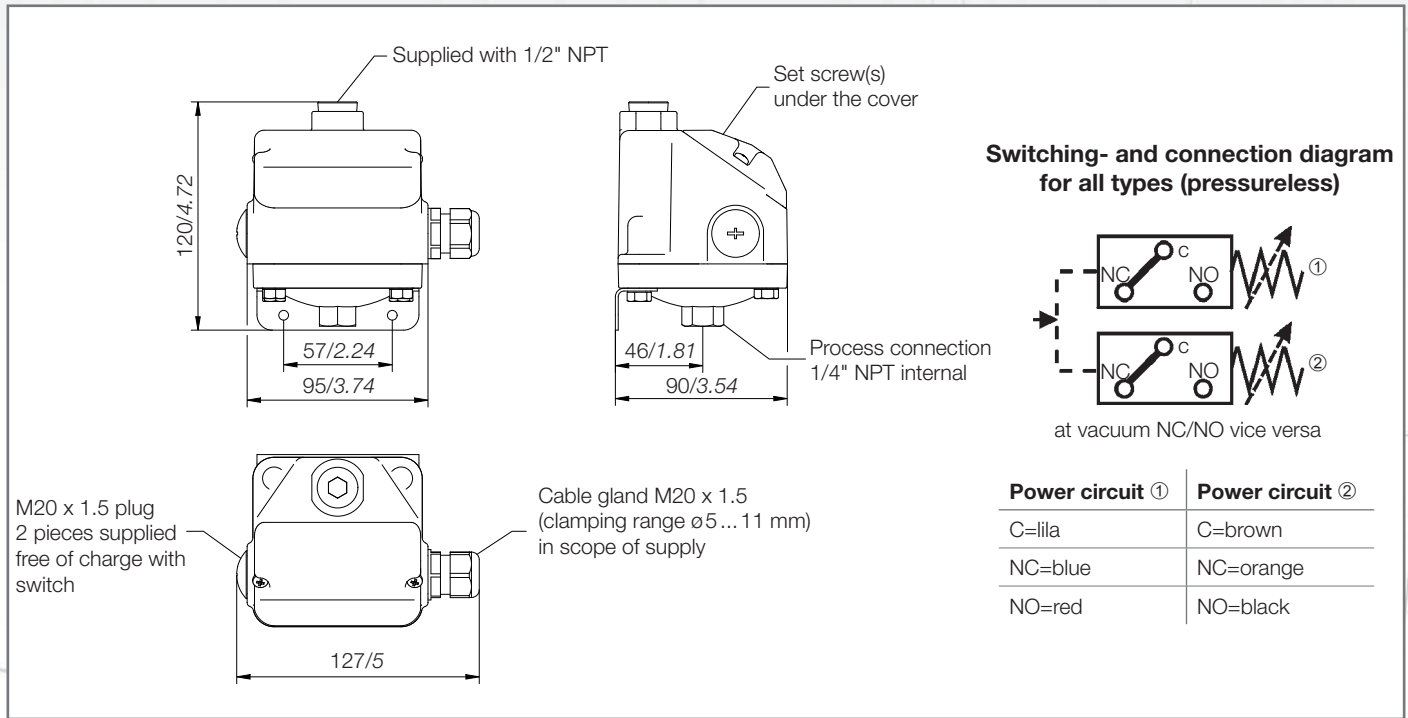
# Pressure

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### Dimensions (in mm / inch)

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### 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	Comments
<b>H</b>	Micro switch with silver contacts	125 250	10 10	10 10	6 to 24	0.50	0.5	Small hysteresis; High AC-/ low DC-load
<b>M</b>	Micro switch with silver contacts	125 250	10 10	10 10	12 24 250	5.00 1.00 0.25	15.0 2.0 0.4	Medium hysteresis; High AC- and DC-loads
<b>GH</b>	Micro switch with gold-plated contacts for low voltage and/or low current	125	1	1	24	1.00	1.0	Small hysteresis
<b>GM</b>		30	0.1	0.1	30	0.10	0.1	Medium hysteresis

480 V AC and 15 A only upon request

### Options

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

### Ordering

#### Example for order number



#### Your order number

