

# Metal-diaphragm differential pressure switch Type DPD1T-.../DPD2T-...

Mechanical single/dual pressure switch Repeatability ±1.0% at constant temperature

#### **Features**

Metal-diaphragm differential pressure switch Switching point can be adjusted with corresponding reference unit during operation

#### **Applications**

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



### **Technical Data**

medium-contacting parts:	Stainless steel 17 - 7PH nickel-faced aluminium O-rings: FKM			
Repeatability:	±1% at constant temperature			
Switching rate:	max. 20/min			
Temperature range:	-40 °C+75 °C			
System of protection	IP65			
Housing:	anodized aluminium			
Process connection:	1/8" NPT female thread			
Electrical connection:	internal terminal strip (0.5-2.5 mm²) Standard: WAGO terminal and cable gland M20x1.5; clamping range ø511 mm			

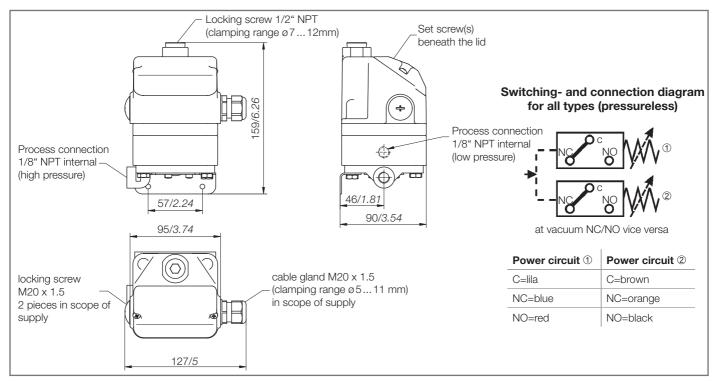
Electrical load capacity and hysteresis:	Many microswitch versions with different switching powers and hysteresis are applicable and make it possible to make customized changes.			
Weight:	DPD1T: approx. 1.6 kg DPD2T: approx. 1.7 kg			
Switching point adjustment:	Switching point lowers by turning the 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: Umax = 28 V Imax = 50 mA			
Approval:				

### **Pressure stages**

Values shown in red (max. pressure rising) = max. operating pressure \* possible operating pressures up to 28 bar. Differential pressure of the adjustment range must not be exceeded.

Pressure stage code	Adjustment	range [bar] *	Test pressure [bar]	-	teresis of the different switches in bar (end of range)	
Analog Input	rising pressure	lowering pressure	(short time)	H, GH [bar]	M, GM [bar]	
Overpressure						
355	0.01 0.2	0.002 0.2	0.7	0.008	0.017	
18SS	0.04 1.2	0.03 1.2	4.0	0.022	0.050	
80SS	0.14 5.5	0.030 5.4	10.9	0.140	0.320	
150SS	0.30 10.3	0.100 10.1	20.0	0.260	0.600	

### 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
н	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
м	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	125	1	1	24	1.00	1.0	low change-back values
gm	contacts for low voltage and low current	30	0.1	0.1	30	0.10	0.1	intermediate change-back values

## Options

480 V AC and 15 A only upon request

	DPD1T		DPD2T
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





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