

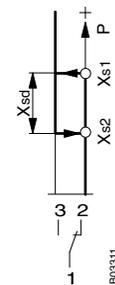
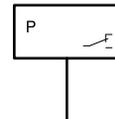
## DFC 17B, 27B: Heavy-duty pressure switch

### Features

- For regulating and monitoring pressure in liquids, gases and vapours
- Especially suitable for installations subject to vibrations
- Contact rating 1 mA/6 V to 10 A/400 V
- Gold-plated silver contacts, vibration-proof snap-action switch with single-pole change-over switch
- Upper and lower switching points can be set independently of each other
- Sealable
- Splashproof
- DFC17B\*\*F001: Pressure sensor made of brass for non-aggressive media
- DFC27B\*\*F002: Pressure sensor made of stainless steel for aggressive media



DFC17B76F001



### Technical data

#### Power supply

Maximum load with gold-plated contacts <sup>1)</sup>	200 mA, 50 V
Minimum load with gold-plated contacts	1 mA, 6 V
Maximum load with silver-plated contacts <sup>2)</sup>	10(2) A, 400 V~ (25 W), 250 V=
Minimum load with silver-plated contacts	100 mA, 24 V

#### Ambient conditions

Temperature of medium	≤ 110 °C
Admissible ambient temperature	-40...70 °C

#### Construction

Housing	Transparent cover
Housing material	Light metal
Cable inlet	PG 13.5
Screw terminals	For wire of up to 2.5 mm <sup>2</sup>
Pressure connection	G½" male

#### Standards and directives

Type of protection <sup>3)</sup>	IP44 (EN 60529)
Protection class	I (IEC 60730)
Test marks <sup>4)</sup>	TÜV DWFS (SDBF) ID: 0000006018 DWFS (SDB) ID: 0000006019 DB (SDBF) ID: 0000006017
Mode of operation	Type 2 B (EN 60730)
Ship-approved	Germanischer Lloyd (GL) ID: 99589-84HH, 99588-84HH, 99587-84HH



<sup>1)</sup> If the contacts are subjected to a load greater than 200 mA, 50 V, the gold plating will be destroyed. They are then classed merely as silver contacts and lose the properties of gold-plated contacts

<sup>2)</sup> Take the RC circuitry into account for inductive loads  
230/400 V networks

From 70 °C media temperature, the current must be reduced to 6 A

<sup>3)</sup> IP 54 with accessory 0259299000

<sup>4)</sup> Certificates can be downloaded from [www.tuv.com](http://www.tuv.com)



CE conformity as per	Low-voltage directive 2006/95/EC	EN 60730-1, 60730-2-6
	EMC Directive 2004/108/EC	EN 6100-6-1, EN61000-6-2 EN 61000-6-3, EN 61000-6-4
	PED 97/23/EC, cat. IV	VdTÜV pressure information sheet 100, sheet 1, cat. IV, DIN 3398 T4 EN 12952-11, EN 12953-9

### Overview of types

Type	Setting range (bar)	Switching difference (bar)	Maximum pressure (bar)	Max. temp., sensor (°C)	Admissible vacuum loading (bar)	Weight (kg)
DFC17B54F001	0...2.5	0.14	16	70	-0.7	1.2
DFC17B58F001	0...6.0	0.18	16	70	-1.0	1.2
DFC17B59F001	-1...5.0	0.2	16	70	-1.0	1.2
DFC17B76F001	0...10	0.5	40	70	-1.0	1.1
DFC17B78F001	0...16	0.5	40	70	-1.0	1.1
DFC17B79F001	16...32	0.8	42	70	-1.0	1.1
DFC17B96F001	0...25	1.7	100	70	-1.0	1
DFC17B97F001	25...50	2	100	70	-1.0	1
DFC17B98F001	0...40	1.8	100	70	-1.0	1
DFC27B26F002	-1...2.5	0.3	21	110	-1.0	0.9
DFC27B43F002	0.5...6.0	0.3	21	110	-1.0	0.9
DFC27B46F002	1...10	0.3	21	110	-1.0	0.9
DFC27B52F002	2...16	0.3	21	110	-1.0	0.9

⚡ The switching difference must be within the setting range of the switching point. The minimum values of the switching difference are only possible in the lower setting range.

### Accessories

Type	Description
0192222000	Cap nut with solder connector
0259239000	Reduction piece G $\frac{1}{2}$ " on 7/16" 20-UNF-2A for copper tubes of $\varnothing$ 6 mm, brass
0311572000	Screw fitting for copper tubes of $\varnothing$ 6 mm, brass
0035465000	Throttle screw for absorbing pressure surges, brass
0214120000	Throttle screw for absorbing pressure surges, stainless steel
0192700000	1 m capillary tube for absorbing pressure surges, copper
0292018001	Damping screw for absorbing pressure surges in low viscosity media
0259189000	Holder for raised wall mounting
0259409000	Fixing bracket (provides 3-point fixing with accessory 0259189)
0259299000	Cable screw fitting PG 13.5
0292019001	Setpoint adjustment for each switching point according to customer's wishes (setting accuracy: $\pm 3\%$ of the setting range)
0292019002	Sealing of the adjustment screw for each switching point (only with accessory 0292019001)
0381141001	Profile sealing ring, copper, for G $\frac{1}{2}$ "