

## Differential pressure switch mechanical Model DPSM-550

WIKA data sheet DPSM-550

### Applications

- Pumps
- Compressors
- Filters
- Evaporators
- Hydraulic systems
- Marine equipment
- Turbines

### Special features

- Wide adjustable range
- Adjustable on-off differential
- Sturdy snap action switch
- High repeatability
- Dough mould compound (DMC) enclosure
- Weatherproof to IP67



Differential pressure switch mechanical,  
model DPSM-550

### Description

The model DPSM-550 is used in industrial control, monitoring and alarm applications. The switch point can be specified by the customer on site. The instrument can switch electrical loads of up to AC 230 V, 10 A. The DPSM-550 differential pressure switch offers many application possibilities with non-corrosive media like oil, water and air.

## Ordering matrix

Model	Range (bar)	Adjustable differential		Maximum test pressure (bar)	
		Contact system / 1 SPDT microswitch	DPDT micro switch	Code 11	Code 41 & 22
K1	0.1 ... 1.5	0.15 ... 1.4	0.3 ... 1.7	15	25
K2	0.2 ... 4	0.3 ... 1.7	0.5 ... 2.1	15	25
K3	1 ... 6	0.5 ... 2.8	0.8 ... 3.0	25	45

### Notes:

- For Ammonia service sensing shall be 316 SS bellows with treated steel wetted parts.
- Process connection : G 3/8 B standard. Others through adaptor.

### Sensing element

- |    |  |
|----|--|
| 11 | Copper alloy (PB) Bellows with brass wetted Parts – standard |
| 41 | 304 SS Bellows with brass wetted parts                       |
| 22 | 316 SS Bellows with 316 SS wetted parts                      |

### Switching element

- |   |                         |
|---|-------------------------|
| C | One SPDT contact system |
| S | One SPDT microswitch    |
| D | DPDT microswitch        |

### Electrical rating for contact system

Current consumption <sup>1)</sup>	Voltage	Current
Resistive load AC-1	AC 230 V, 50/60 Hz	10 A
Inductive load AC-15	AC 230 V, 50/60 Hz	4 A
Direct load DC-13	DC 230V	12W

1) Low port, falling pressure and High port, rising pressure

### ONE SPDT Microswitch

15A Res. 125 / 250V AC  
 15A Ind. 125 / 250V AC  
 0.5A Res. 125V / 0.25A 250V DC  
 6A Ind. 30V / 0.05A 125V / 0.03A 250V DC

### DPDT Microswitch

10A 125 / 250 V AC, 2A 480V AC  
 0.25A 250V DC

### Enclosure

- D DMC Enclosure, weatherproof to IP:67 as per IS/IEC:60529-2001 – Std.
- A Die cast Aluminium housing, weatherproof to IP:67 as per IS/IEC:60529-2001

## Standard version

### Permissible ambient temperature

–40°C ... 70°C

### Permissible medium temperature

- –20°C ... 70°C for code 11 and 41
- –20°C ... 170°C for code 22

### Electrical entry

1/2" NPT(F)

### Repeatability

± 1% FSR

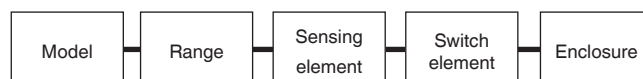
### Mounting

Back Panel / Wall / Pipe

### Confirmity

Generally to BS : 6134 : 1991

### Model Number to be ordered as below



Example DPSM-550-K1-41-C-D

Model: K1

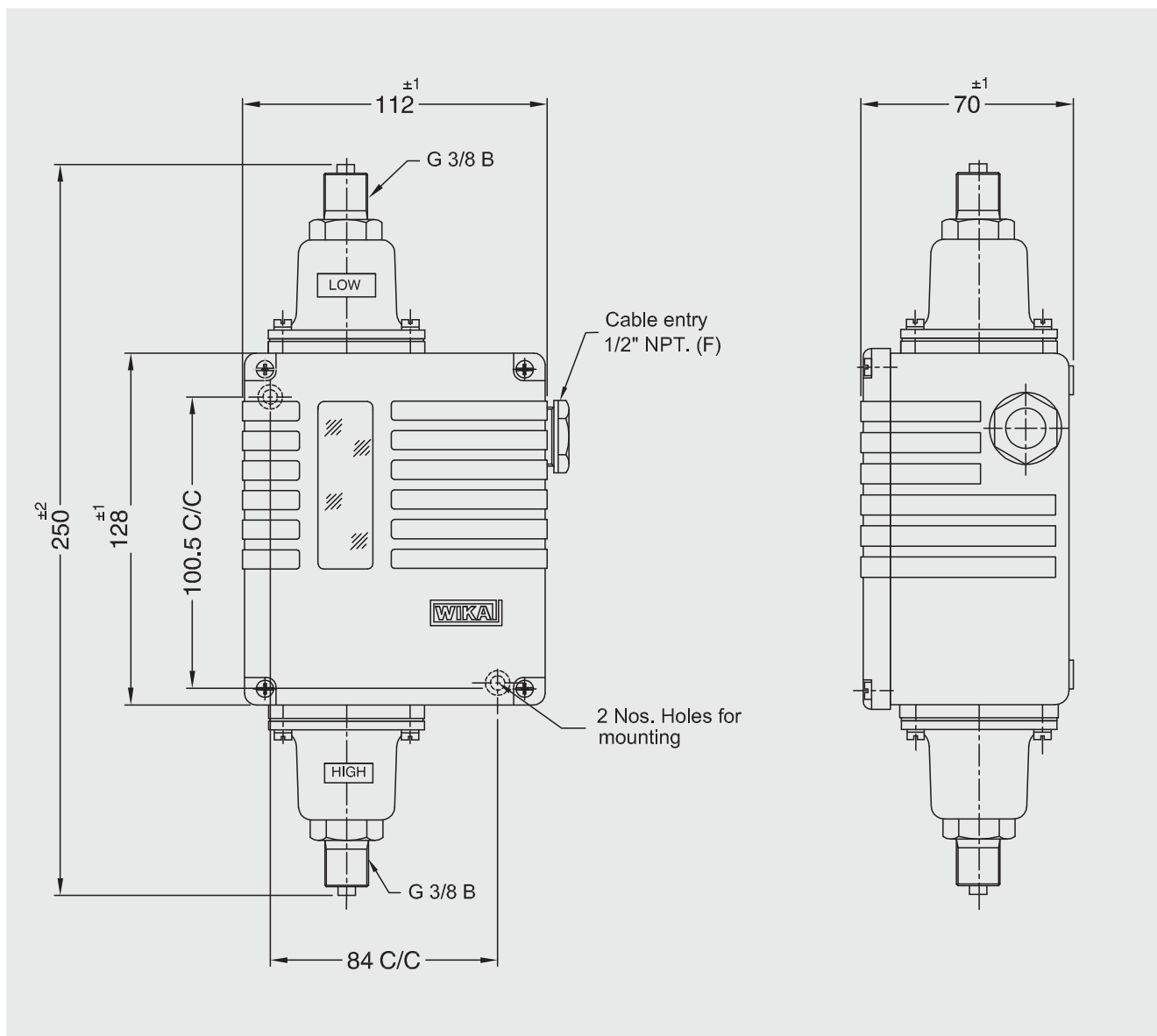
Range: 0.1 ... 1.5 bar

304 SS Bellows with brass wetted parts

1 SPDT contact system

DMC housing, weatherproof to IP:67  
 as per IEC:60529-2001

## Dimensions in mm



### Ordering information

Model / Range / Sensing element / Switch element / Enclosure

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