



# Electric Contact Gauge, 3 inches

Model: PRE3



## PRODUCT DESCRIPTION

▼  
Suitable for observation and automatic control

▼  
Adjustable magnetic strength to avoid frequent, accidental collision of contacts due to vibration

▼  
A variety of contact types to choose from

## PRODUCT SPECIFICATION

**Connection location**  
Bottom mount, back mount with flange,  
back mount without flange

**Electrical connections**  
Cable outlet

**Nominal size**  
3"

**Accuracy**  
±3.0% F.S.

**Process connection**  
316L SS  
1/4, 3/8, 1/2  
PT, G, NPT

**Window**  
PC

**Movement**  
Copper alloy

**Bourdon tube**  
316 SS

**Pressure limitation**  
Steady: full scale value  
Fluctuating: 0.9 x full scale value

**Ambient temperature**  
-20°C ... 70°C

**Medium temperature**  
-20°C ... 150°C

**Contact**  
EC1 snap-action contacts,  
70% silver & 30% nickel, golden plated

**Switch contact specifications**  
Rated voltage: 250 V (Max.)  
Contact capacity: 30 W ~ 50 VA (Max.)  
Starting current: 1.0 A (Max.)  
Persistent current: 0.6 A (Max.)  
Switching voltage: 24 V (Min.)

The product images displayed in the catalog are illustrative, and the actual products will be customized to your requirements.

CONTACT FUNCTION CODES

\* Logics are based on a clock-wise pointer motion.



a Normally Open contact (NO)  
Code: 1



a Normally Closed contact (NC)  
Code: 2

| Model  | Contact type | When the pointer reaches the set-point with the rising pressure...          | And if the pointer passes the set-point again by falling pressure...              | Wiring (common terminal) default                                                    | Wiring (separate terminal) optional                                                 |
|--------|--------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| EC1-1  | NO           | ...one Contact will close                                                   | ...that contact will open again                                                   |  | —                                                                                   |
| EC1-2  | NC           | ...one Contact will open                                                    | ...that contact will close again                                                  |  | —                                                                                   |
| EC1-21 | NC-NO        | ...1 <sup>st</sup> contact will open and 2 <sup>nd</sup> contact will close | ...2 <sup>nd</sup> contact will open and 1 <sup>st</sup> contact will close again |  |  |

MAXIMUM CONTACT RATINGS FOR EC1 SNAP-ACTION CONTACTS

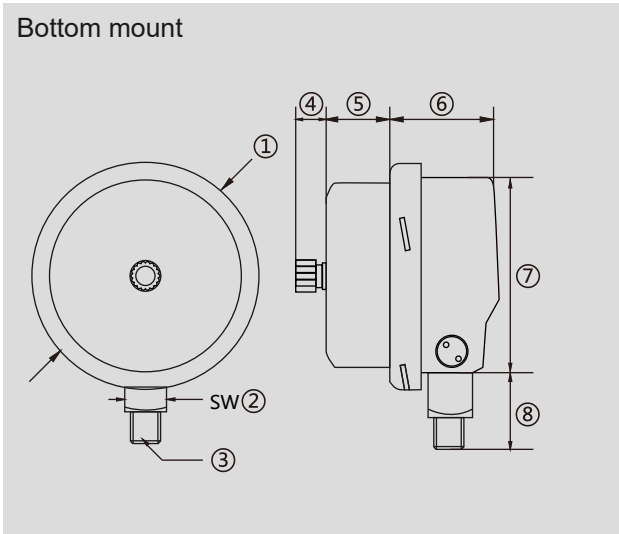
| Max. contact ratings with resistive loads | Not filled instrument |
|-------------------------------------------|-----------------------|
| Contact closing                           | 1.0 A                 |
| Contact opening                           | 1.0 A                 |
| Continuous load                           | 0.6 A                 |
| Maximum load                              | 30 W / 50 VA          |
| Ambient temperature                       | -20...+60°C           |

RECOMMENDED CONTACT RATINGS FOR EC1 SNAP-ACTION CONTACTS

| Voltage | Magnetic Snap-action EC1 Unfilled Instrument |                     |
|---------|----------------------------------------------|---------------------|
|         | Resistive load (mA)                          | Inductive load (mA) |
| 24V DC  | 400                                          | 250                 |
| 24V AC  | 600                                          | 250                 |
| 48V DC  | 300                                          | 200                 |
| 48V AC  | 450                                          | 200                 |
| 110V DC | 200                                          | 125                 |
| 110V AC | 240                                          | 125                 |
| 230V DC | 100                                          | 65                  |
| 230V AC | 120                                          | 65                  |

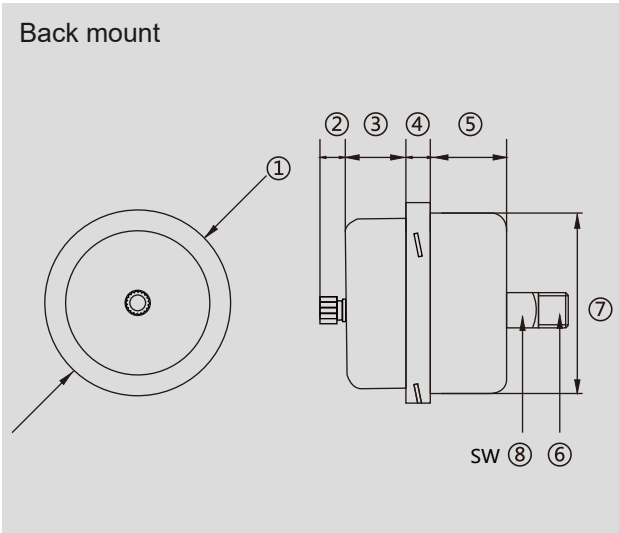
DIMENSIONS

Bottom mount



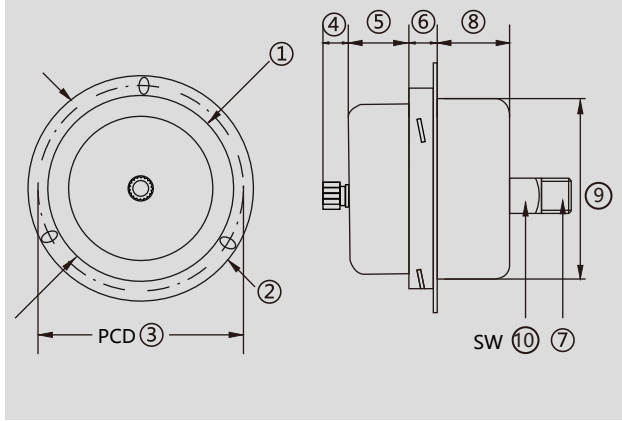
| Dimensions (mm) |    |    |     |    |    |      |    |    |
|-----------------|----|----|-----|----|----|------|----|----|
| NS              | ①  | ②  | ③   | ④  | ⑤  | ⑥    | ⑦  | ⑧  |
| 3"              | 84 | 17 | 3/8 | 27 | 35 | 46.5 | 75 | 35 |

Back mount



| Dimensions (mm) |    |    |    |    |    |     |      |    |
|-----------------|----|----|----|----|----|-----|------|----|
| NS              | ①  | ②  | ③  | ④  | ⑤  | ⑥   | ⑦    | ⑧  |
| 3"              | 85 | 28 | 34 | 10 | 36 | 3/8 | 75.5 | 17 |

Back mount with flange



| Dimensions (mm) |    |     |    |    |    |      |     |    |      |    |
|-----------------|----|-----|----|----|----|------|-----|----|------|----|
| NS              | ①  | ②   | ③  | ④  | ⑤  | ⑥    | ⑦   | ⑧  | ⑨    | ⑩  |
| 3"              | 85 | 102 | 90 | 28 | 34 | 10.5 | 3/8 | 36 | 75.5 | 17 |



*Gauging your needs!*

## **ORDERING INFORMATION**

Model / Connection location / Scale range / Process connection / Contact function / Options

## **CONTACT INFORMATION**

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- For any changes to the specifications of this catalogue, the latest version shall prevail. -

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