

# Control pressure switch MDR 53



## Control pressure switch MDR 53

**Max. cut-out pressure 16 bar**  
**Ample wiring room**  
**High switching accuracy**  
**1 SPDT**  
**Acc. to EN 60947**  
**UL / CSA-approval**

## Type overview MDR 53

| Order reference                   | ON / OFF | Pressure range<br>P <sub>OFF</sub> in bar | Flange | Weight<br>in g | Part No |
|-----------------------------------|----------|---|--------|----------------|---------|
| MDR-53 EAA BAAA xxxA080 XAA XXX   | -        | 0.5 - 8                                   | G 1/2" | 740            | 213079  |
| MDR-53 GAA BAAA xxxA110 XAA XXX*  | -        | 6 - 11                                    | G 1/2" | 780            | 216919  |
| MDR-53 HAA BAAA xxxA160 XAA XXX   | -        | 6 - 16                                    | G 1/2" | 780            | 213086  |
| MDR-53 NAA BAAA xxxA030 XAA XXX** | -        | up to 3                                   | G 1/2" | 740            | 213130  |
| MDR-53 OAA BAAA xxxA080 XAA XXX** | -        | up to 8                                   | G 1/2" | 740            | 213147  |

\* xxx = Cut-out pressure is preset, cut-in pressure is the tightest possible pressure differential.

\*\* xxx = Cut-out pressure is preset, cut-in pressure is the tightest possible pressure differential and pressure-resistant up to 25 bar, SO-Type.

A screw plug is also supplied.

Cable glands for retrofit assembly to be ordered separately, see accessories!

## Technical Data MDR 53

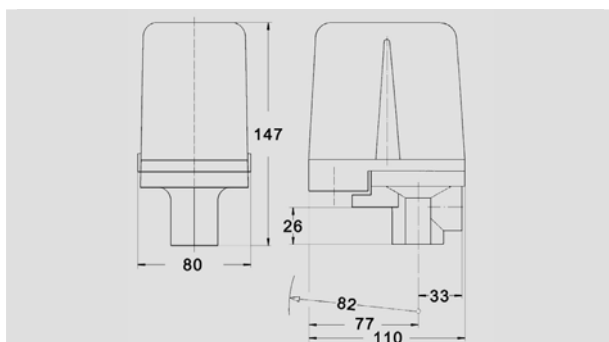
| Technical Data MDR 53 acc. to EN 60947                |                       |
|---|-----------------------|
| Rated insulation voltage U <sub>i</sub>               | 500 V                 |
| Rated operational current I <sub>e</sub> (AC 15)      | 8 A                   |
| Rated insulation voltage U <sub>e</sub><br>(AC 15)    | 250 V                 |
| Electrical life (AC 3)<br>Cycles                      | > 2 x 10 <sup>5</sup> |
| Mechanical life<br>Cycles                             | > 2 x 10 <sup>6</sup> |
| Max. electrical cycles<br>Cycles/h                    | 120                   |
| Max. mechanical cycles<br>Cycles/h                    | 1200                  |
| Rated operating current I <sub>e</sub>                | 10 A                  |
| Bursting strength P <sub>z</sub>                      | > 40 bar              |
| Rated operating current I <sub>e</sub><br>at 240 V AC | - 5...+ 80 °C         |

| Technical Data MDR 53 acc. to EN 60947                   |                          |
|--|--------------------------|
| Permissible media temperature<br>Water                   | + 80 °C                  |
| Protection<br>acc. to EN 60529                           | IP 54                    |
| Conductor cross-section 1 ..<br>flexible cable 1 x / 2 x | 2.5 / 2.5mm <sup>2</sup> |
| Conductor cross-section 1<br>rigid cable 1 x / 2 x       | 2.5 / 2.5mm <sup>2</sup> |

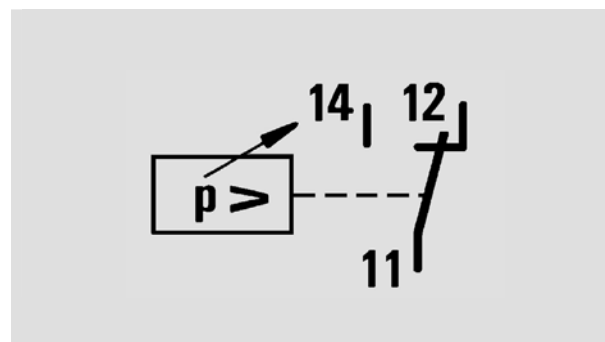
| Diaphragm media resistance MDR 53  |            |
|--|------------|
| Acetylene, Butane, Natural gas, Petroleum, Vinegar 25 %, Glycerol, Carbon dioxide, Air, Propane, Sulphur dioxide, Silicon oil, Water, Distilled water, Hydrogen, Sea water | resistance |

A detailed overview of diaphragm media resistance for all pressure switches can be found on page 2.11.

## Dimensions / Circuit Diagrams MDR 53



Pressure switch MDR-53



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## Accessories MDR 53

| Order reference     | Description   | Weight in g | Part No. |
|---------------------|---|-------------|----------|
|                     | <b>Cable glands</b>                                     |             |          |
| WN 5                | Grommet   | 6           | 201953   |
| PG 16 V-5           | Cable glands, complete                                  | 12          | 201960   |
| PG 16 Z-5           | With strain relief                                      | 12          | 201977   |
| PG 16 ZK-5          | With strain relief and cable support                    | 12          | 201984   |
| PG 16/13,5 Z        | Reduced to PG 13,5 with strain relief                   | 12          | 202004   |
| PG 16/13,5 ZK       | Reduced to PG 13,5 with strain relief and cable support | 12          | 202011   |
| PG 16/11 V-5        | Reduced to PG 11  | 12          | 201991   |
| MW 5                | Mounting bracket  | 120         | 230045   |
|                     | <b>Cover</b>  |             |          |
| H5<br>(Cover MDR 5) | Cover without On/Off push-buttons                       | 130         | 230052   |

## Cable glands MDR 53



WN 5



PG 16 V-5



PG 16 Z-5



PG 16 ZK-5



PG 16/11 V-5

## Accessories, Wall-mounting bracket / Cover MDR 53



MW 5



H5

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## Pressure Diagrams MDR 53

