Gold-plated contacts in microswitch
High number of switching cycles
Vibration resistant to 15g
Microswitch approved by UL and CSA
Intrinsically safe operation

Technical Data
Fluid:
- Hydraulic, lubricating and light fuel oils
- Soft seal for neutral
- Self lubricating fluids
Operation:
- Piston type sensor system
Port sizes:
- G1/4 (BSP), 7/16-20 UNF (SAE-4), 1/4 NPT, Flange
Operating pressure ranges:
- 5 - 420 bar
Ambient temperature:
- -20 to + 80 °C
Operating Viscosity:
- Up to 1000 mm²/s (±450ssu)
Fluid Temperature:
- -20 to +80°C
Maximum temperature at switching element:
- +80°C
Repeatability:
- ± 3%
Electrical Connection:
- Acc. to DIN 43650 A
- Acc. to IEC 947-5-2 (M 12 x 1)
Switching Element:
- Microswitch (gold plated contacts)
Degree of Protection:
- IP65 for conn. DIN 43650
- IP67 for conn. M 12 x 1
Mounting:
- Optional
Material:
- Sensor and seal see table overleaf

Ordering Information
To order, quote part number from table overleaf, e.g. a G¹/₄" ported switch with a pressure range of 5-70 bar is 0882100.

Switching function:
Microswitch SPDT
Terminals 1 - 3:
Contacts close on rising pressure.
Terminals 1 - 2:
Contacts open on rising pressure.

Switching function:
M12 x 1:
Microswitch SPDT
Terminals 1 - 4:
Contacts close on rising pressure.
Terminals 1 - 2:
Contacts open on rising pressure.
### General Information:

18 D variations with electrical connection DIN 43650 A

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Pressure Range (bar)</th>
<th>Switching Pressure Difference ** (bar)</th>
<th>Maximum Over Pressure * (bar)</th>
<th>Switching (Cycles per min)</th>
<th>Pressure Sensor Materials</th>
<th>Fluid Connection</th>
<th>Weight (kg)</th>
<th>Dimension Drawing No.</th>
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<tbody>
<tr>
<td>0882160</td>
<td>5 – 70</td>
<td>10,5</td>
<td>15</td>
<td>400</td>
<td>100</td>
<td>AL/Steel</td>
<td>0.2</td>
<td>04</td>
</tr>
<tr>
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<td>10 – 160</td>
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** Observe switching range. Do not subject switch to max. allowable pressure during normal operation. Even short pressure peaks must not exceed this value.

** Max. values.

*** M 12 plug not included. If required, please order separately.

Table on page 3.

† 1 bar = 14.503 psi.

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### 18 D variations with electrical connection M 12 x 1 (max allowable voltage 30 V)***

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Key to materials:

- **AL** = Aluminium
- **NBR** = Perbunan
- **PTFE** = Teflon
- **CN** = Zinc die cast
- **Pu** = Polyurethane
- **POM** = Delrin

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**Dimensional drawing 01**

**Dimensional drawing 02**

**Dimensional drawing 03**

**Dimensional drawing 04**

**Dimensional drawing 05**

**Connector M 12 x 1**

<table>
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<tr>
<th>Type</th>
<th>Description</th>
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<tr>
<td>Type 0523055</td>
<td>straight, without cable</td>
</tr>
<tr>
<td>Type 0523057</td>
<td>straight, 2 m cable, 4-core</td>
</tr>
<tr>
<td>Type 0523052</td>
<td>straight, 5 m cable, 4-core</td>
</tr>
<tr>
<td>Type 0523056</td>
<td>90° without cable</td>
</tr>
<tr>
<td>Type 0523058</td>
<td>90° 2 m cable, 4-core</td>
</tr>
<tr>
<td>Type 0523053</td>
<td>90° 5 m cable, 4-core</td>
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</tbody>
</table>

3 ea, hexagon socket head cap screws M5 x 45 DIN 912-10.9 (Cat. No. 07000390) are included in the delivery.

O-ring 4.47 x 1.78 (Cat. No. 0701481) included in the delivery.

Adjustment of switching point (hexagon socket SW6)

**Accessories**

**Reducer G 1/2 to G 1/4, external thread** Part No. 0574767

**Snubber G 1/4** Part No. 0574773

**Cover** Part No. 0554737

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5.11.020

Warning

These products are intended for use in industrial systems only. Do not use these products where pressures and temperatures can exceed those listed under ‘Technical Data’. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult Norgren. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such a failure. System designers must provide a warning to end users in the system instruction manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products where applicable.