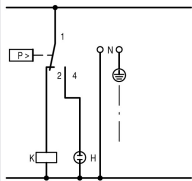


**Pressure switches with auxiliary contacts, 7 bar, 1 changeover contact with gold-plated contacts, IP65**

**Part no.** MCS4-G  
**Catalog No.** 058693  
**Alternate Catalog No.** MCS4-G

## Delivery program

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |     |                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note on use                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |     | This product complies with Low-Voltage Directive 2014/35/EC and EMC Directive 2014/30/EC and meets the requirements in EN 60947-5-1. This product does not meet the rail industry's standard requirements. Accordingly, the user must review it separately for the specific application at hand. |
| Product range                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |     | Pressure switches with auxiliary contacts                                                                                                                                                                                                                                                        |
| Degree of Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |     | IP65                                                                                                                                                                                                                                                                                             |
| Contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |     | 1 changeover contact with gold-plated contacts                                                                                                                                                                                                                                                   |
| <b>Cut-in pressure and cut-out pressure: separate stepless adjustment. All the intersection points within the diagram area can be set.</b>                                                                                                                                                                                                                                                                                                                                           |  |     |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |     | Min. switching differential: 0.15 bar                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |     | Example:                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |     | Cut-out pressure 3.3 bar                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |     | Cut-in pressure 2.2 bar                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |     | Variable switching differential                                                                                                                                                                                                                                                                  |
| Max. operating pressure                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | bar | 7                                                                                                                                                                                                                                                                                                |
| <b>Notes</b><br><br>                                                                                                                                                                                                                                                                                                                                                                               |  |     |                                                                                                                                                                                                                                                                                                  |
| <b>Features:</b> <ul style="list-style-type: none"> <li>Pressure pipe flange R ¼"</li> <li>If required: pressure pipe flange R ½"</li> <li>IP65 in conjunction with V-M20 cable gland</li> <li>1 Insulated protective conductor terminal </li> <li>2 cable entry knockouts for M20</li> <li>Neoprene membrane, resistant to aging, air, engine oil, and water min. -25 °C, max. +80 °C</li> </ul> |  |     |                                                                                                                                                                                                                                                                                                  |
| Cut-in and cut-out pressures are factory-preset as specified with type suffix: →#203948                                                                                                                                                                                                                                                                                                                                                                                              |  |     |                                                                                                                                                                                                                                                                                                  |
| R ¼" corresponds to G ¼"                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |     |                                                                                                                                                                                                                                                                                                  |
| R ½" corresponds to G ½" according to ISO 228-1                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |     |                                                                                                                                                                                                                                                                                                  |
| Auxiliary contact to IEC/EN 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |     |                                                                                                                                                                                                                                                                                                  |
| <b>Notes</b><br><br>Gold-plated contacts, particularly suitable for switching low voltages and currents from 5 V AC/DC 1 mA.                                                                                                                                                                                                                                                                                                                                                         |  |     |                                                                                                                                                                                                                                                                                                  |

## Technical data

### General

|                      |              |     |                                                                                |
|----------------------|--------------|-----|--------------------------------------------------------------------------------|
| Standards            |              |     | IEC/EN 60947-5-1                                                               |
| Test pressure        |              | bar | 32                                                                             |
| Rupturing pressure   |              | bar | 90                                                                             |
| Operating frequency  | Operations/h |     | ≤ 1500                                                                         |
| Climatic proofing    |              |     | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature  |              |     | -25 - 70                                                                       |
| Degree of Protection |              |     | IP65                                                                           |

|                                               |                             |                   |                                      |
|-----------------------------------------------|-----------------------------|-------------------|--------------------------------------|
| Mounting position                             |                             |                   | Vertical<br>90° in all directions    |
| Mechanical shock resistance to IEC 60068-2-27 | Half-sinusoidal shock 20 ms | g                 | > 18                                 |
| Vibration resistance acc. to IEC/EN 60068-2-6 | Amplitude 1 mm              | Hz                | 36                                   |
| lifespan                                      | Operations                  | x 10 <sup>6</sup> | 1                                    |
| Terminal capacities                           |                             | mm <sup>2</sup>   |                                      |
| Solid                                         |                             | mm <sup>2</sup>   | 1 x (0.75 - 2.5)<br>2 x (0.75 - 1.5) |
| Flexible with ferrules to DIN 46228           |                             | mm <sup>2</sup>   | 1 x (0.5 - 1.5)                      |
| Terminations                                  |                             |                   | Tunnel terminal                      |
| Terminal screw                                |                             |                   | M3                                   |
| Tightening torque of terminal screw           |                             | Nm                | 0.5                                  |

Contacts/switching capacity

|                                       |                  |      |           |
|---------------------------------------|------------------|------|-----------|
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC | 4000      |
| Rated insulation voltage              | U <sub>i</sub>   | V    | 400       |
| Overvoltage category/pollution degree |                  |      | III/3     |
| Max. short-circuit protective device  |                  |      |           |
| Fuseless                              |                  | Type | PKZM0-6,3 |
| Fuse                                  | gG/gL            | A    | 10        |
| AC-15                                 |                  |      |           |
| Rated operational current             |                  |      |           |
| 230 V, 50/60Hz                        |                  | A    | 2         |
| DC-13                                 |                  |      |           |
| Rated operational current             |                  |      |           |
| 24 V                                  |                  | A    | 2         |
| 110 V                                 |                  | A    | 0.25      |
| Rated frequency                       | f                | Hz   | 50        |

Design verification as per IEC/EN 61439

|                                        |  |    |     |
|----------------------------------------|--|----|-----|
| Technical data for design verification |  |    |     |
| Operating ambient temperature min.     |  | °C | -25 |
| Operating ambient temperature max.     |  | °C | 70  |

Technical data ETIM 8.0

|                                                                                                                                                                                                                             |  |     |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|------------------------------------------------|
| Low-voltage industrial components (EG000017) / Pressure switch (EC000243)                                                                                                                                                   |  |     |                                                |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Pressure monitoring equipment (ecI@ss10.0.1-27-37-18-14 [AKF108014]) |  |     |                                                |
| Suitable as guard                                                                                                                                                                                                           |  |     | Yes                                            |
| Suitable as 2-point controller                                                                                                                                                                                              |  |     | Yes                                            |
| Suitable as limiter                                                                                                                                                                                                         |  |     | No                                             |
| Max. operating pressure                                                                                                                                                                                                     |  | hPa | 7000                                           |
| Engaging pressure                                                                                                                                                                                                           |  | bar | 0 - 4.2                                        |
| Initial setting                                                                                                                                                                                                             |  | hPa | 0 - 0                                          |
| Switch off pressure                                                                                                                                                                                                         |  | bar | 0 - 4.5                                        |
| End setting                                                                                                                                                                                                                 |  | hPa | 0 - 0                                          |
| Pressure-switching differential                                                                                                                                                                                             |  | bar | 0                                              |
| Max. test pressure                                                                                                                                                                                                          |  | bar | 32                                             |
| Bursting pressure                                                                                                                                                                                                           |  | bar | 90                                             |
| Medium temperature                                                                                                                                                                                                          |  | °C  | 25 - 80                                        |
| Connection                                                                                                                                                                                                                  |  |     | Internal thread cylindrical BSPP-G (ISO 228-1) |
| Thread size                                                                                                                                                                                                                 |  |     | 1/2 inch                                       |
| Rated voltage Ue at AC 50 Hz                                                                                                                                                                                                |  | V   | 0 - 230                                        |
| Rated voltage Ue at AC 60 Hz                                                                                                                                                                                                |  | V   | 0 - 230                                        |
| Rated voltage Ue at DC                                                                                                                                                                                                      |  | V   | 0 - 110                                        |

|                                                         |    |                  |
|---------------------------------------------------------|----|------------------|
| Initial value measuring range pressure                  | Pa | 0                |
| End value measuring range pressure                      | Pa | 0                |
| Rated operation power at AC-3, 400 V                    | kW | 0                |
| Switching capacity at AC-3, 240 V                       | kA | 0                |
| Rated operation current I <sub>e</sub> at AC-1, 400 V   | A  | 0                |
| Rated operation current I <sub>e</sub> at AC-3, 400 V   | A  | 0                |
| Number of auxiliary contacts as normally open contact   |    | 0                |
| Number of auxiliary contacts as normally closed contact |    | 0                |
| Number of auxiliary contacts as change-over contact     |    | 1                |
| Type of electric connection                             |    | Screw connection |
| Number of normally closed contacts as main contact      |    | 0                |
| Number of normally open contacts as main contact        |    | 0                |
| Adjustable current range                                | A  | 0 - 0            |
| With hand operation                                     |    | No               |
| With manual on/off switch                               |    | No               |
| Electronic version                                      |    | No               |
| With display                                            |    | No               |
| Explosion-proof                                         |    | No               |
| Degree of protection (IP)                               |    | IP65             |
| Degree of protection (NEMA)                             |    | Other            |
| Height                                                  | mm | 111              |
| Width                                                   | mm | 60               |
| Diameter                                                | mm | 0                |
| Depth                                                   | mm | 96               |