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Powering Business Worldwide

MCS4 - Pressure switch, 1W, 7bar, 0.2bar



019711 MCS4

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019711 MCS4

Pressure switch, 1W, 7bar, 0.2bar

Alternate Catalog No.

MCS4

EL-Nummer (Norway)

4356105

IEC EN 60947-5-1, IP65_x, pressure monitoring of liquid and gaseous media, e. g. compressed air, for actuation of the auxiliary circuits, make and break pressure: separately adjustable

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

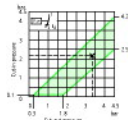
Contacts

1 changeover contact

Out-in pressure and cut-out pressure:

separate stepless adjustment.

All the intersection points within the diagram area can be set.



Min. switching differential: 0.15 bar

Example:

Out-out pressure 3.3 bar

Out-in pressure 2.2 bar

Variable switching differential

Max. operating pressure

7 bar

Notes

□

Features:

- Pressure pipe flange R 1/4"
- If required: pressure pipe flange R 1/2"
- IP65 in conjunction with V-M20 cable gland
- 1 Insulated protective conductor terminal □
- 2 cable entry knockouts for M20
- Neoprene membrane, resistant to aging, air, engine oil, and water min. -25 °C, max. +80 °C

Out-in and cut-out pressures are factory-preset as specified with type suffix: □#203948

R 1/4" corresponds to G 1/4"

R 1/2" corresponds to G 1/2" according to ISO 228-1

Technical data

General
Standards
IEC/EN 60947-5-1
Test pressure
32 bar
Rupturing pressure
90 bar
Operating frequency [Operations/h]
□ 1500
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature
-25 - 70
Degree of Protection
IP65
Mounting position
As required
Mechanical shock resistance to IEC 60068-2-27 [Half-sinusoidal shock 20 ms]
> 10 g
Vibration resistance acc. to IEC/EN 60068-2-6 [Amplitude 1 mm]
36 Hz
lifespan [Operations]
1 x 10⁶
Terminal capacitiesSolid
1 x (0.75 - 2.5)
2 x (0.75 - 1.5) mm²
Terminal capacitiesFlexible with ferrules to DIN 46228
1 x (0.5 - 1.5) mm²
Terminations
Tunnel terminal
Terminal screw
M3
Tightening torque of terminal screw
0.5 Nm
Contacts/switching capacity
Rated impulse withstand voltage [U_{imp}]
4000 V AC
Rated insulation voltage [U]
400 V
Overvoltage category/pollution degree
III/3
Max. short-circuit protective deviceFuseless
FKZMD-6,3 Type
Max. short-circuit protective deviceFuse [gG/gL]
10 A
AC-15Rated operational current230 V, 50/60Hz
2 A
DC-13Rated operational current24 V
2 A
DC-13Rated operational current110 V
0.25 A
Rated frequency [f]
50 Hz

Design verification as per IEC/EN 61439

Operating ambient temperature min.
-25 °C
Operating ambient temperature max.
+70 °C

Technical data ETIM 7.0

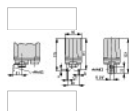
Low-voltage industrial components (EG000017) / Pressure switch (EC000243)
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Pressure monitoring equipment (ecl@ss10.0.1-27-37-18-14 [AKF108014])
Suitable as guard
Yes
Suitable as 2-point controller
Yes
Suitable as limiter
No
Max. operation pressure
7000 hPa
Engaging pressure
0 - 4.2 bar
Initial setting
0 - 0 hPa
Switch off pressure
0 - 4.5 bar
End setting
0 - 0 hPa

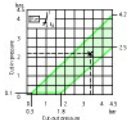
Pressure-switching differential
0 bar
Max. test pressure
32 bar
Bursting pressure
90 bar
Medium temperature
25 - 80 °C
Connection
Inner thread gas cylindrical (BSPP)
Thread size
1/4 inch
Rated voltage U_e at AC 50 Hz
0 - 230 V
Rated voltage U_e at AC 60 Hz
0 - 230 V
Rated voltage U_e at DC
0 - 110 V
Initial value measuring range pressure
0 Pa
End value measuring range pressure
0 Pa
Rated operation power at AC-3, 400 V
0 kW
Switching capacity at AC-3, 240 V
0 kA
Rated operation current I_e at AC-1, 400 V
0 A
Rated operation current I_e at AC-3, 400 V
0 A
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 main contacts as normally open contact
0
Adjustable current range
0 - 0 A
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
110 mm
Width
60 mm
Diameter
0 mm
Depth
96 mm

Approvals

Product Standards
CSA-CC22.2 No. 14
CSA File No.
12528
CSA Class No.
3211-06
North America Certification
CSA certified

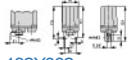
Dimensions





[132U001](#)
 Characteristic curve
 Coordinate visualization
 Pressure diagram

Dimensions single product



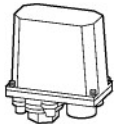
[132X002](#)
 Dimensions single product
 Line drawing
 Pressure switch

[132X003](#)
 Dimensions single product
 Line drawing
 Compression fitting

[132X005](#)
 Dimensions single product
 Line drawing
 Pressure switch

[132X006](#)
 Dimensions single product
 Line drawing
 Pressure switch

3D drawing



[132I001](#)
 3D drawing
 Line drawing
 Pressure switch

Product photo



[Photo](#)
 Product photo
 Photo
 Pressure switch

Instruction Leaflet

- [Pressure switch \(IL05212001Z\)](#)
 Instruction Leaflet
 (PDF, International)

Declaration of Conformity

- [DA-DC-00002838](#)
 Declaration of Conformity
 (PDF)

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