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MCS22 - Pressure switches with auxiliary contacts, 25 bar, 1 changeover contact, IP65



098019 MCS22

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098019 MCS22

Pressure switches with auxiliary contacts, 25 bar, 1 changeover contact, IP65

Alternate Catalog No.

MCS22

EL-Nummer (Norway)

4356107

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

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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.



Mn. switching differential: 0.7 bar

Example:

Out-out pressure 17.5 bar

Out-in pressure 7.8 bar

Variable switching differential

Max. operating pressure

25 bar

Notes

□

Features:

- Pressure pipe flange R ¼"
- If required: pressure pipe flange R ½"
- 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 ¼" corresponds to G ¼"

R ½" corresponds to G ½" according to ISO 228-1

Auxiliary contact to IEC/EN 60947-1

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 capacities Solid

1 x (0.75 - 2.5)

2 x (0.75 - 1.5) mm²

Terminal capacities Flexible 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_i]

400 V

Overvoltage category/pollution degree

III/3

Max. short-circuit protective device Fuseless

PKZMD-6,3 Type

Max. short-circuit protective device Fuse [gG/gL]

10 A

AC-15 Rated operational current 230 V, 50/60 Hz

2 A

DC-13 Rated operational current 24 V

2 A

DC-13 Rated operational current 110 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

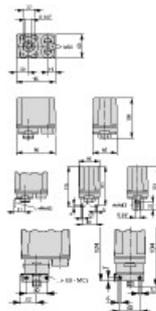
Low-voltage industrial components (EG000017) / Pressure switch (EC000243)
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Pressure monitoring equipment (ecl@ss10.0.1-27-37-18-14 [AKF108014])
Suitable as guard
Yes
Suitable as 2-point controller
Yes
Suitable as limiter
No
Max. operation pressure
25000 hPa
Engaging pressure
0 - 21 bar
Initial setting
0 - 0 hPa
Switch off pressure
0 - 22 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

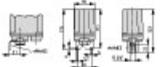
Dimensions

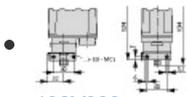


Characteristic curve

- [132U003](#)
Coordinate visualization
Pressure diagram

Dimensions single product

-  [132X002](#)
Line drawing
Pressure switch



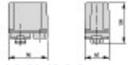
132X003

Line drawing
Compression fitting



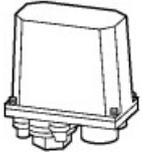
132X006

Line drawing
Pressure switch



132I001

Line drawing
Pressure switch



3D drawing

Product photo



132A015

Photo
Pressure switch

Instruction Leaflet

- [MCS..., MCSN... Pressure Switches \(IL05212001Z\)](#)
Asset
former AWA132-132
(PDF, 10/2020, multilingual)

Declaration of Conformity

EU

- [Pressure switch \(with auxiliary contacts\) \(DA-DC-00003448\)](#)
Asset
(PDF)

UK

- [Pressure switch \(with auxiliary contacts\) \(DA-DC-00003962\)](#)
Asset
(PDF)

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