DATASHEET - MCS22



Part no. MCS22 098019 Catalog No. **Alternate Catalog** MCS22 No. **EL-Nummer** 4356107

Pressure switch, 1W, 25bar

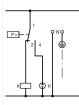
(Norway)



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
Cut-in pressure and cut-out pressure: separate stepless adjustment. All the intersection points within the diagram area can be set.		
		by 21.0 18 19 19 10 10 10 10 10 10 10 10 10 10
		Min. switching differential: 0.7 bar
		Example:
		Cut-out pressure 17.5 bar
		Cut-in pressure 7.8 bar
		Variable switching differential
Max. operating pressure	bar	25

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
- ٠ 2 cable entry knockouts for M20
- Neoprene membrane, resistant to aging, air, engine oil, and water min. -25 °C, max. +80 °C

Cut-in and cut-out pressures are factory-preset as specified with type suffix: \rightarrow #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

deneral			
Standards			IEC/EN 60947-5-1
Test pressure		bar	32
Rupturing pressure		bar	90
Operating frequency	Operations/h		≦ 1500

General

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	g	> 10
Vibration resistance acc. to IEC/EN 60068-2-6	Amplitude 1 mm	Hz	36
lifespan	Operations	x 10 ⁶	1
Terminal capacities		mm ²	
Solid		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrules to DIN 46228		mm ²	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 _{imp}	V AC	4000
Rated insulation voltage	Ui	V	400
Overvoltage category/pollution degree			III/3
Max. short-circuit protective device			
Fuseless		Туре	PKZM0-6,3
Fuse	gG/gL	А	10
AC-15			
Rated operational current			
230 V, 50/60Hz		Α	2
DC-13			
Rated operational current			
24 V		А	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 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	hPa	25000
Engaging pressure	bar	0 - 21
Initial setting	hPa	0 - 0
Switch off pressure	bar	0 - 22
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		Inner thread gas cylindrical (BSPP)
Thread size		1/4 inch

Rade voltage Ue at AC 60 Hz Comparison			
Attack volume variable va	Rated voltage Ue at AC 50 Hz	V	0 - 230
Antiol value measuring range pressureImage and the sense of the sense o	Rated voltage Ue at AC 60 Hz	V	0 - 230
And value measuring range pressure Pa Anded operation power at AC-3,400 V KW Switching capacity at AC-3,240 V KA Switching capacity at AC-3,240 V KA Sated operation current le at AC-1,400 V KA Rated operation current le at AC-1,400 V C Number of auxiliary contacts as normally open contact M Number of auxiliary contacts as normally closed contact M Number of auxiliary contacts as normally closed contact M Number of auxiliary contacts as normally closed contact M Number of main contacts as normally open contact N Number of main contacts as normally copen contact M Number of main contacts as normally copen contact N Number of main contacts as normally copen contact N Number of main contacts as normally copen contact N Number of main contacts as normally copen contact N <	Rated voltage Ue at DC	V	0 - 110
Rede operation power at AC-3, 400 V KW O Switching capacity at AC-3, 240 V KM 0 Rade operation current le at AC-1, 400 V A 0 Rade operation current le at AC-3, 400 V A 0 Number of auxiliary contacts as normally open contact M 0 Number of auxiliary contacts as normally closed contact M 0 Number of auxiliary contacts as change-over contact M 0 Number of auxiliary contacts as main contact M 0 Number of main contacts as main contact M 0 Number of main contacts as normally open contact M 0 Number of main contacts as main contact M 0 Number of main contacts as main contact M 0 Number of main contacts as mormally open contact M 0 Number of main contacts as mormally compace M 0 Number of main contacts as mormally compace M 0 Number of main contacts as mormally compace M 0 Nuther of main contact M 0 Nuther of main contact	Initial value measuring range pressure	Ра	0
Kitching capacity at AC-3, 240 V KA 0 Rated operation current le at AC-1, 400 V A 0 Rated operation current le at AC-3, 400 V A 0 Number of auxiliary contacts as normally open contact P P Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally closed contact F P Number of auxiliary contacts as normally closed contact F F 0 Number of auxiliary contacts as normally closed contact F F 0 Number of normally closed contacts F F F 0 Number of normally closed contacts as main contact F F 0 F 0 Adjustable current range F F F No F No With manual on/off switch F F No F F F	End value measuring range pressure	Ра	0
Act operation current le at AC-1, 400 V A 0 Rated operation current le at AC-3, 400 V A 0 Number of auxiliary contacts as normally open contact F 0 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as normally closed contact F 0 Number of auxiliary contacts as normally closed contact F 0 Number of normally closed contacts as nain contact F 0 Number of normally closed contacts as nain contact F 0 Adjustable current range F 0 0 Adjustable current range F No 0 With manual on/off switch F No No Electronic version F No No Explosion-proof F No No Explosion-proof F No No Explosion-proof F No No Explosion-proof F No No	Rated operation power at AC-3, 400 V	kW	0
Rated operation current le at AC-3, 400 V A 0 Number of auxiliary contacts as normally open contact A 0 Number of auxiliary contacts as normally closed contact A 0 Number of auxiliary contacts as normally closed contact A 0 Number of auxiliary contacts as normally closed contact A 0 Number of auxiliary contacts as normally closed contact A 0 Number of normally closed contacts as main contact A 0 Number of main contacts as normally open contact A 0 Adjustable current range A 0 0 With manual on/off switch A 0 0 Electronic version A 0 0 With display A 0 0 Explosion-proof A 0 0 Degree of protection (IP) A 0 0 Beight Mm Degree of protection (NEMA) No	Switching capacity at AC-3, 240 V	kA	0
Number of auxiliary contacts as normally open contact Image: second	Rated operation current le at AC-1, 400 V	А	0
Number of auxiliary contacts as normally closed contact Image: Contacts as normally closed contact Number of auxiliary contacts as change-over contact Image: Contacts as change-over contact Type of electric connection Image: Contacts as main contact Number of normally closed contacts as main contact Image: Contacts as main contact Number of normally closed contacts as main contact Image: Contacts as main contact Number of normally closed contacts as main contact Image: Contacts as normally open contact Number of main contacts as normally open contact Image: Contacts as normally open contact Adjustable current range Image: Contacts as normally open contact Nith hand operation Image: Contacts as normally open contact Nith hand operation Image: Contacts as normally open contact Nith display Image: Contact Contacts Vith display Image: Contact Contact Contact Contact Explosion-proof Image: Contact Co	Rated operation current le at AC-3, 400 V	А	0
Number of auxiliary contacts as change-over contact Image: second s	Number of auxiliary contacts as normally open contact		0
Type of electric connection Screw connection Number of normally closed contacts as main contact 0 Number of main contacts as normally open contact Image: Connection Adjustable current range Image: Connection With hand operation Image: Connection With manual on/off switch Image: Connection Electronic version Image: Connection With display Image: Connection Explosion-proof Image: Connection (IPC) Degree of protection (NEMA) Image: Connection Height Image: Connection	Number of auxiliary contacts as normally closed contact		0
Number of normally closed contacts as main contact Image: Contacts as normally open contact Image: Contacts as normally open contact Number of main contacts as normally open contact Image: Contacts as normally open contact Image: Contacts as normally open contact Adjustable current range Image: Contacts as normally contacts Image: Contacts as normally contacts Image: Contacts as normally contacts With hand operation Image: Contacts as normally contacts Image: Contacts as normally contacts Image: Contacts as normally contacts With manual on/off switch Image: Contacts as normally contacts Image: Contacts as norm Image: Contacts as normaly	Number of auxiliary contacts as change-over contact		1
Number of main contacts as normally open contactImage: Sector of Mathematic Sector of Mat	Type of electric connection		Screw connection
Adjustable current range A 0 With hand operation M M With manual on/off switch M M Electronic version M M With display M M Explosion-proof M M Degree of protection (NEMA) M M Height M M	Number of normally closed contacts as main contact		0
Yield baseAnd operationNoWith hand operationNoNoWith manual on/off switchMoNoElectronic versionMoNoWith displayMoNoExplosion-proofMoNoDegree of protection (NEMA)MoMoHeightMoMoMain and the second	Number of main contacts as normally open contact		0
With manual on/off switchImage: Second s	Adjustable current range	А	0 - 0
Electronic versionImage: Big State of Sta	With hand operation		No
With displayPage <td>With manual on/off switch</td> <td></td> <td>No</td>	With manual on/off switch		No
Explosion-proof Mo Degree of protection (IP) IMO Degree of protection (NEMA) IMO Height IMO	Electronic version		No
Degree of protection (IP) IP65 Degree of protection (NEMA) Image: Compare the sector of the sector	With display		No
Degree of protection (NEMA) M Other Height mm 10	Explosion-proof		No
Height mm 110	Degree of protection (IP)		IP65
	Degree of protection (NEMA)		Other
Nidth mm 60	Height	mm	110
	Width	mm	60
Diameter mm 0	Diameter	mm	0
Depth mm 96	Depth	mm	96

Approvals

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



