### **DATASHEET - MCS22**



Pressure switch, 1W, 25bar

Part no. MCS22 098019 Catalog No. Eaton Catalog No. MCS22 0004356107 **EL-Nummer** (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.		
		210 210 210 210 210 210 210 210
		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"
- IP65 in conjunction with V-M20 cable gland •
- 1 Insulated protective conductor terminal 🕀
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- 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: →#203948

R ¼" corresponds to G ¼

R  $\frac{1}{2}''$  corresponds to G  $\frac{1}{2}$  according to ISO 228-1

Auxiliary contact to IEC/EN 60947-1

### **Technical data**

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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
cimate proving			Damp heat, constant, to IEC 60068-2-30 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 <sup>6</sup>	1
Terminal capacities		mm <sup>2</sup>	
Solid		mm <sup>2</sup>	1 x (0.75 - 2.5) 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	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		А	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	Pa 25000		
Engaging pressure	bar	Dar 0 - 21		
Initial setting	hPa	nPa 0-0		
Switch off pressure	bar	Dar 0 - 22		
End setting	hPa	nPa 0-0		
Pressure-switching differential	bar	Dar 0		
Max. test pressure	bar	par 32		
Bursting pressure	bar	par 90		
Medium temperature	°C	°C 25 - 80		
Connection		Inner thread gas cylindrical (BSPP)		
Thread size		1/2 inch		

Rade votage Us at AC 60 Hz         Pair Color         Color C			
Anatoria du a ta C         Image du a ta C         Image du a ta comparison de la co	Rated voltage Ue at AC 50 Hz	V	0 - 230
Initial value measuring range pressure         Image: Page Page Page Page Page Page Page Page	Rated voltage Ue at AC 60 Hz	V	0 - 230
Individue 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 le at AC-1, 400 V       A       0         Rated operation current le at AC-3, 400 V       MA       0         Number of auxiliary contacts as normally open contact       M       0         Number of auxiliary contacts as normally closed contact       M       0         Number of nauxiliary contacts as normally open contact       M       0         Number of nauxiliary contacts as normally closed contact       M       0         Number of nauxiliary contacts as main contact       M       0         Number of nauxiliary contacts as main contact       M       0         Number of main contacts as normally open contact       M       0         Number of main contacts as normally open contact       M       N         Mith hand operation       M       N       No         With hand operation       N       No       N         With display       No       No       N         Explosion-ford       M       N       N         Explosion-ford       M       N       N         Degree of pro	Rated voltage Ue at DC	V	0 - 110
Rated operation power at AC-3, 400 V         KW         0           Switching capacity at AC-3, 240 V         KA         0           Rated operation current le at AC-1, 400 V         G         A           Rated operation current le at AC-3, 400 V         G         0           Number of auxiliary contacts as normally open contact         G         0           Number of auxiliary contacts as normally closed contact         G         0           Number of auxiliary contacts as normally closed contact         G         G           Number of auxiliary contacts as normally closed contact         G         G           Number of normally closed contacts as main contact         G         G           Number of main contacts as normally open contact         G         G           Number of main contacts as normally open contact         G         G           Number of main contacts as normally open contact         G         G           Number of main contacts as normally open contact         G         G           Number of main contacts as normally open contact         G         G           Number of main contacts as normally open contact         G         G           Number of main contacts as normally closed contact         G         G           Nut contact as an ormal contact         G	Initial value measuring range pressure	Ра	0
Switching capacity at AC-3, 240 VImage: Additional state in the state i	End value measuring range pressure	Ра	0
Ated operation current let AC-1, 400 V         A         O           Bated operation current let AC-3, 400 V         A         O           Number of auxiliary contacts as normally open contact         M         O           Number of auxiliary contacts as normally closed contact         M         O           Number of auxiliary contacts as change-over contact         M         M           Type of electric connection         M         G           Number of main contacts as main contact         M         M           Adjustable current range         M         M           With hand operation         M         M           With display         Non-O         M           Electronic version         M         M         M           Degree of protection (IPC)         M         M         M           Height         M         M         M           Height         M         M         M           Middhalperation (INEMA)         M         M         M           Middhalperation (INEMA)         M         M         M           Degree of protection (INEMA)         M         M         M           Middhalperation (INEMA)         M         M         M           Middhal	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 closed contact       0       0         Number of auxiliary contacts as normally closed contact       0       0         Number of auxiliary contacts as change-over contact       F       0         Number of auxiliary contacts as change-over contact       F       0         Number of normally closed contacts as main contact       F       0         Number of normally closed contacts as main contact       F       0         Adjustable current range       F       0       0         Number of normally closed contacts       F       0       0         Adjustable current range       F       N       0       0         With and operation       F       N       No       No       0         With and portation       F       N       No	Switching capacity at AC-3, 240 V	kA	0
Number of auxiliary contacts as normally open contactImage: sector open contactImage: s	Rated operation current le at AC-1, 400 V	А	0
Number of auxiliary contacts as normally closed contact         Image: space of the space	Rated operation current le at AC-3, 400 V	А	0
Number of auxiliary contacts as change-over contact         Image: space of the space of t	Number of auxiliary contacts as normally open contact		0
Type of electric connection         Screw connection           Number of normally closed contacts as main contact         0         0           Number of main contacts as normally open contact         Image: Connection         0           Adjustable current range         Image: Connection         0           With hand operation         Image: Connection         Image: Connection           With display         Image: Connection         Image: Connection           Explosion-proof         Image: Connection         Image: Connection           Degree of protection (NEMA)         Image: Connection         Image: Connection           Height         Image: Connection         Image: Connection           With fight         Image: Connection         Image: Connection           Digree of protection (NEMA)         Image: Connection         Image: Connection           With fight         Image: Connection         Image: Connection           With fight         Image: Connection         Image: Connection           Degree of protection (NEMA)         Image: Connection         Image: Connection           With fight         Image: Connection         Image: Connection         Image: Connection           With All Connection         Image: Connection         Image: Connection         Image: Connection	Number of auxiliary contacts as normally closed contact		0
Number of normally closed contacts as main contact     Image: Contacts as main contact       Number of main contacts as normally open contact     Image: Contacts as normally open contact       Adjustable current range     Image: Contacts as normally open contact       With hand operation     Image: Contacts as normally open contact       With manual on/off switch     Image: Contacts as normally open contact       With manual on/off switch     Image: Contacts as normally open contact       With display     Image: Contacts as normally open contact       Explosion-proof     Image: Contacts as normally open contact       Degree of protection (NEMA)     Image: Contact as normally open contact       Height     Image: Contact as normally open contact       With Grand     Image: Contact as normally open contact       With display     Image: Contact as normally open contact       Degree of protection (NEMA)     Image: Contact as normally open contact       Height     Image: Contact as normally open contact       With Grand     Image: Contact as normally open contact       With Grand     Image: Contact as normally open con	Number of auxiliary contacts as change-over contact		1
Number of main contacts as normally open contact         Image: Properties of the second	Type of electric connection		Screw connection
Adjustable current range Adjustable curr	Number of normally closed contacts as main contact		0
View of the second se	Number of main contacts as normally open contact		0
With manual on/off switchImage: Sector of	Adjustable current range	А	0 - 0
Electronic version     Mode       With display     Mode       Explosion-proof     Mode       Degree of protection (NEMA)     Mode       Height     Mode       With display     Mode       With display     Mode       Degree of protection (NEMA)     Mode       Height     Mode       With display     Mode       Mith display     Mode	With hand operation		No
With displayNoExplosion-proofNoDegree of protection (IP)MoDegree of protection (NEMA)MoHeightMnWith displayMnWith displayMnWith displayMnDiameterMnMainMn <td>With manual on/off switch</td> <td></td> <td>No</td>	With manual on/off switch		No
Explosion-proof     Image: Marcine State	Electronic version		No
Degree of protection (IP)Mathematical Stream (IP)P65Degree of protection (NEMA)Mathematical Stream (IP)OtherHeightMathematical Stream (IP)Mathematical Stream (IP)WidthMathematical Stream (IP)Mathematical Stream (IP)DiameterMathematical Stream (IP)Mathematical Stream (IP)	With display		No
Degree of protection (NEMA)     Mail     Mail       Height     Mm     10       Width     mm     60       Diameter     Mm     0	Explosion-proof		No
Height     mm     10       Width     mm     60       Diameter     mm     0	Degree of protection (IP)		IP65
Width     mm     60       Diameter     mm     0	Degree of protection (NEMA)		Other
Diameter mm 0	Height	mm	110
	Width	mm	60
Depth mm 96	Diameter	mm	0
	Depth	mm	96

### **Approvals**

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







# Additional product information (links)

IL05212001Z (AWA1320-0132) Pressure switch

IL05212001Z (AWA1320-0132) Pressure switch ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL05212001Z2018\_05.pdf