DATASHEET - MCS4



Pressure switch, 1W, 7bar, 0.2bar

Part no. MCS4 019711 Catalog No. Eaton Catalog No. MCS4 **EL-Nummer** 0004356105 (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.		
		42 4 4 4 4 4 4 4 4 4 4 4 4 4
		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

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

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

General		
Standards		IEC/EN 60947-5-1
Test pressure	bar	32
Rupturing pressure	bar	90

01/21/2019

Operating frequency

≦ 1500

Operations/h

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 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		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	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		Inner thread gas cylindrical (BSPP)
Thread size		1/2 inch

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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 No 0 0 With and operation F N No No 0 </td <td>Switching capacity at AC-3, 240 V</td> <td>kA</td> <td>0</td>	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 figure Image: Connection Image: Connection Diagree of protection (NEMA) Image: Connection Image: Connection With figure Image: Connection Image: Connection With figure Image: Connection Image: Connection Degree of protection (NEMA) Image: Connection Image: Connection With figure Image: Connection Image: Connection Image: Connection With Addition 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 as normally	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