

Datasheet - EX-MAF 330-11Y

Position switch / light Position switch / EX-M 330 / EX-M 330 Spring rod lever AF



(Minor differences between the printed image and the original product may exist!)

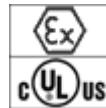
- Metal enclosure
- Long life
- 40 mm x 76 mm x 40 mm (basic component)
- Suitable for low actuating speeds
- 1 Cable entry M 20 x 1.5
- free of silicon
- proved in power station applications
- Ex certified
- Can be actuated from any direction
- Elasticity of the spring allows for deflection above the max. switching angle of 15°

Ordering details


Product type description	EX-MAF 330-11Y
Article number	101207964
EAN Code	4030661373324
eCl@ss	27-27-06-01

Approval

Approval



Global Properties

Permanent light	EX-M 330 Federstabhebel AF
Standards	EN 60947-5-1, EN 60079-0, EN 60079-31, BG-GS-ET-15
Compliance with the Directives (Y/N) 	Yes
Suitable for safety functions (Y/N)	No
Standard housing (Y/N)	No
Materials	
- Material of the housings	light alloy die-casting
- Material of the rod	Metal film
- Material of the contacts	Silver
Housing coating	painted
Weight	185

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	0,75
- Max. Cable section	2.5
AWG-Number	13
Active principle	mechanical
Mechanical life	1.000.000 operations
Design of actuating element	Spring rod lever
restistance to shock	50 / 6
Bounce duration	≤ 1.5
Switchover time	≤ 10
Contact opening	2 x 0,5
Repeat accuracy of switching points	± 0,02
Impact energy	4
Actuating speed	1

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-15
- Max. environmental temperature	+80
Protection class	IP65 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
- Change-over contact with double break	
Switching principle	Snap switch element
Number of shutters	1
Number of openers	1
Rated impulse withstand voltage	4
Rated insulation voltage	250
Thermal test current	10 A
Utilisation category	AC-15: 230 V / 4 A DC-13: 24 V / 4 A
Max. fuse rating	6 A gG D-fuse

ATEX

EX-marking	EX II 3D Ex tc IIIC T100°C Dc X
Explosion protection categories for gases	None
Explosion protection Zones for gases	None
Explosion protected category for dusts	ATEX dust ex-protection, Cat. 3
Explosion protection Zones for dusts	22






Dimensions

Dimensions of the sensor	
- Width of sensor	40
- Height of sensor	184.5
- Length of sensor	40

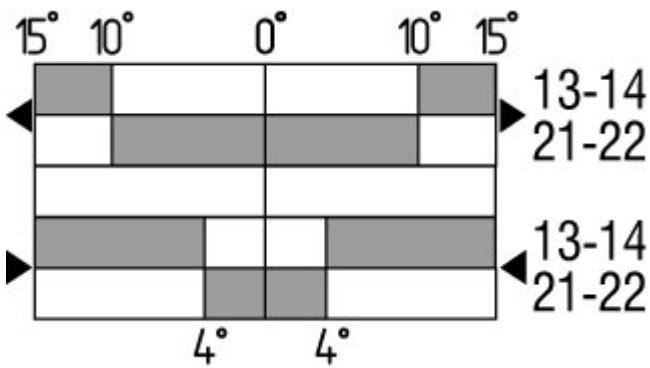
Diagram








Note Diagram

-  positive break NC contact
-  active
-  no active
-  Normally-open contact
-  Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

-  Contact closed
-  Contact open
-  Setting range
-  Break point
-  Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VÖ** adjustable range of NC contact
- N** after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.

Order example: EX-MAF 330-11Y**Au-Ni**

...**Au-Ni**

Gold-nickel contact tips for low DC voltages

Documents

Operating instructions and Declaration of conformity (it) 220 kB, 01.12.2017

Code: mrl_ex-maf330_it

Operating instructions and Declaration of conformity (fr) 222 kB, 01.12.2017

Code: mrl_ex-maf330_fr

Operating instructions and Declaration of conformity (nl) 221 kB, 06.08.2018

Code: mrl_ex-maf330_nl

Operating instructions and Declaration of conformity (de) 202 kB, 09.11.2017

Code: mrl_ex-maf330_de

Operating instructions and Declaration of conformity (en) 216 kB, 09.11.2017

Code: mrl_ex-maf330_en

Operating instructions and Declaration of conformity (pl) 240 kB, 01.02.2018

Code: mrl_ex-maf330_pl

Operating instructions and Declaration of conformity (es) 218 kB, 19.12.2017

Code: mrl_ex-maf330_es

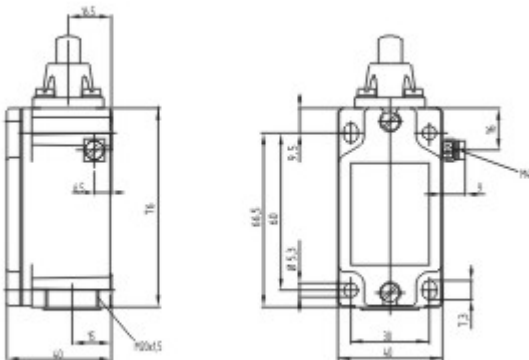
Operating instructions and Declaration of conformity (pt) 224 kB, 01.12.2017

Code: mrl_ex-maf330_pt

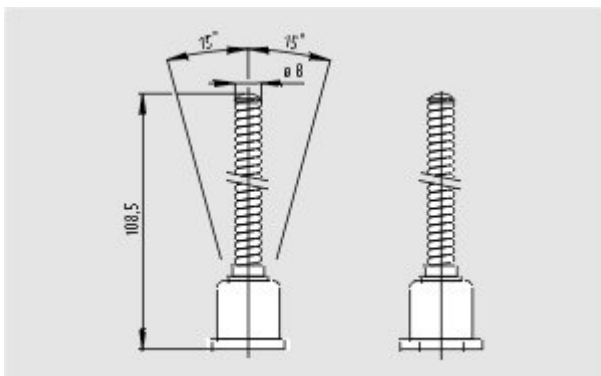
Mounting and wiring instructions (de, fr, en) 288 kB, 26.05.2011

Code: m_exmp01

Images



Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)



Operating principle

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal
The data and values have been checked thoroughly. Technical modifications and errors excepted.
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