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Sheet: 25889-0-en-2.1.0 MK V11D03 Article: Date: 2020/07/27 Description: Microswitch with plunger Page: 1/3

#### Housing:

Polymer housing

## **Protection degree:**

IP00 without terminal cover IP20 with terminal cover VF C01, VF C03 IP40 with terminal cover VF MKC•1•, VF C02

## **General data:**

Ambient temperature: -25°C ... +85°C

Max. actuation frequency: 3600 operating cycles/hour Mechanical endurance: 10 million operating cycles Safety parameters B<sub>10</sub>D: 20,000,000 for NC contacts

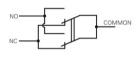
#### **Contact block characteristics:**

1NO+1NC changeover

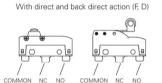
Contacts with single interruption and double contacts.

## Positive switch opening:

Device without positive opening. If installed individually, not suitable for safety applications.



Contacts with single interruption and double contacts



strands):



## **Actuation forces and travels:**

PC: 0.5mm FS: 4N

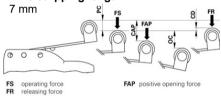
PC pre-travel CAP positive opening travel

OC: 2mm FR: 3N

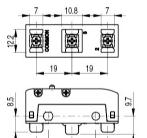
CD: 0,05mm

min. 1 x 0,34 mm2 (1 x AWG 22) max. 2 x 1,5 mm2 (2 x AWG 16)

## Wire stripping length:



Cable cross section (flexible copper



Screw terminals V with plate

## Compliance with the requirements of:

OC over-travel
CD differential travel

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU. RoHS Directive 2011/65/EU.

## Conformità alle norme:

IEC 60947-5-1, EN 60947-5-1, IEC 60529, EN 60529, EN 60947-1, IEC 60947-1, EN 50581.

## Approvals:

UL 508, CSA 22.2 No. 14, EN60947-1, EN 60947-5-1

#### **Device screw tightening torques:**

Tighten the nuts with a torque of 2 ... 3

Tighten the head screws with a torque of 0.3 ... 0.4 Nm.

Tighten the M4 screws with a torque of 0.8 .. 1.2 Nm, insert washer.

Attention: A tightening torque higher than 1.2 Nm can cause the breaking of the microswitch.

Tighten the terminal screws with a torque of 0.6 ... 0.8 Nm.

## Markings and quality marks:













#### **Electrical data:**

Thermal current (Ith): 16 A

Rated insulation voltage (Ui): 250 Vac 300 Vdc Rated impulse withstand voltage (Uimp): 4 kV

Conditional short circuit current: 1000 A acc. to EN 60947-5-1 Protection against short circuits: type gG fuse 16 A 250 V

Pollution degree: 3

Dielectric strength 2000 Vac/min.

#### **Utilization category:**

Alternate current: AC15 (50...60 Hz)

Ue (V) 120 250 3 le (A) 5 Direct current: DC13

Ue (V) 24 125 250 le (A) 0,6 0,3



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Article:

Sheet: 25889-0-en-2.1.0 Date: 2020/07/27

Page: 2/3

## Characteristics approved by UL

Electrical Ratings: Q300 pilot duty (69 VA, 125-250 V dc) A300 pilot duty (720 VA, 120-300 V ac)

## Characteristics approved by IMQ and CCC

Rated insulation voltage (Ui): 250 Vac

Conventional free air thermal current (Ith): 16 A

Protection against short circuits: type gG fuse 16 A 250 V

Rated impulse withstand voltage (Uimp): 4 kV Conditional short circuit current: 1000 A Protection degree of the housing: IP00 Terminals: screw terminals/faston

Pollution degree: 3 Utilization category: AC15

Operating voltage (Ue): 250 Vac (50 Hz)

Operating current (le): 5 A

Forms of the contact element: X; Y; C

Positive opening of contacts on contact blocks: 1, 3

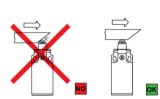
In conformity with standards: EN 60947-1, EN 60947-5-1+ A1:2009,

fundamental requirements of the Low Voltage Directive 2006/95/EC.

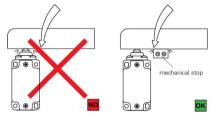
## Mechanical stop

Acc. to EN ISO 14119 paragraph 5.2 "the position sensors must not be used as

mechanical stop".



The actuator must not exceed the max. travel as indicated in the travel diagrams.



The guard must not use the switch head as a mechanical stop.

# Plunger - Type 1

Vmax (m/s)	Vmin (mm/s)
0,5	0,05

## **Actuation modes**

Recommended application	Application to avoid This application is possible, but increased mechanical stress may shorten the operating life of the switch	Forbidden application
	>30° >30°	



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Date: 2020/07/27

Page: 3/3

This device does not feature positive opening and therefore cannot be used individually for safety functions.