

KISSLING MICRO SWITCH

Series MND1

Quality Switch

Our MND1 KISSLING micro switches have been specifically designed for mission critical applications with extended environmental requirements in a centrally controlled miniature housing.

These high quality micro switches are precise and display both reliable and consistent switching behavior under the harshest conditions and over product lifespans of 10 million cycles. The switch has a load switching range from 0.1A up to 5A (AC). The housings are made of thermoplastic and are sealed up to IP67 depending on the configuration.

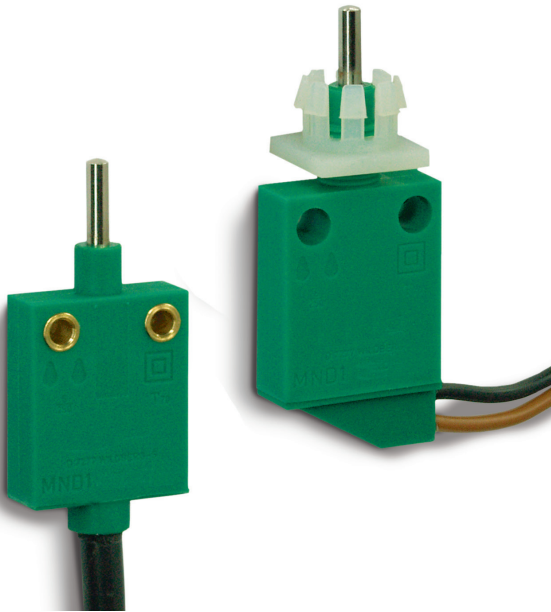
This series offers high switching security, since in operation the moving contact is activated in a cross traverse with respect to the fixed contact. This movement provides automatic self cleaning of the main contact surface and inhibits welding or sticking. These switches are intended to be used in extreme environmental conditions.

Features

- 1-pole switches
- Nominal load up to 5A at 250VAC
- Min. switching current 10mA at 12VDC
- Switching frequency up to 100 cycles/min.
- Variety of available actuator geometries and sizes
- High quality silver alloy or gold plated contacts

Applications

- Automotive equipment
- General mechanical engineering
- Appliance and industrial engineering
- Medical equipment
- Commercial vehicles



KISSLING MICRO SWITCH

Series MND 1

Specification

Technical Data

Housing Material	Thermoplast GF
Interior protection	IP67 IEC 60529 / IP6K7 ISO 20653

Mechanical Data

Pre-travel (change over contact)	0.6mm - 1.5mm
Overtravel (Plunger long)	min. 2mm
Overtravel (Plunger short)	max. 1mm
Movement differential	0.2mm - 0.7mm
Operating force	< 10N
Release force	> 1N
Max operating force	< 20N
Current carrying parts	Cu-alloy
Contact material	Silver alloy or gold plated contacts
Mechanical life	10 Mio.
Frequency	max. 100/min
Operating speed	min. 0.1mm/sec
Operating speed in direction of plunger	max. 10mm/sec
Temperature range (depending on cable type)	-40°C to +70°C
Temperature range(special edition)	-40°C to +200°C

Electrical data

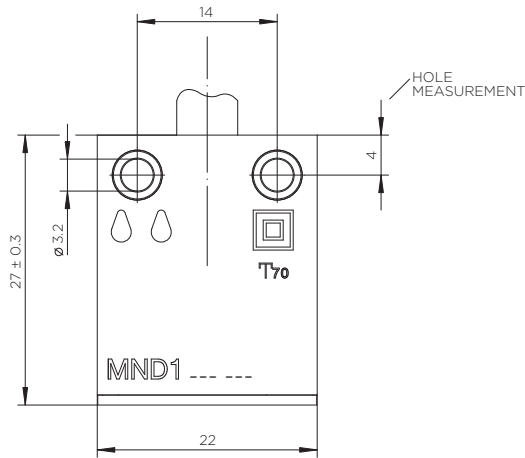
Nominal voltage / Continuous current	460VAC, 1,5A 250VAC, 5A 24VDC, 2A
Min. switching capacity	12VDC, 10mA

KISSLING MICRO SWITCH

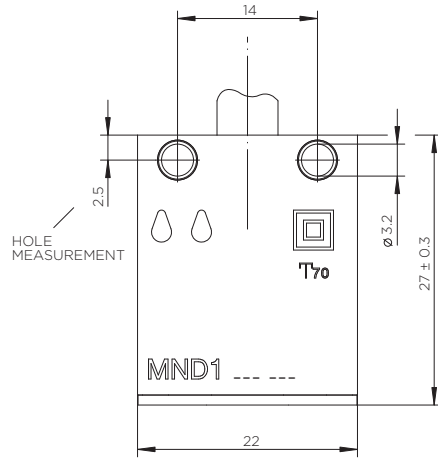
Series MND1

Technical drawings

Hole measurement 4

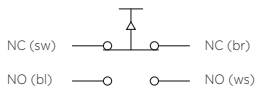


Hole measurement 2.5

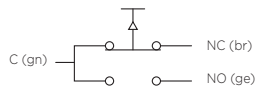


Switching Function

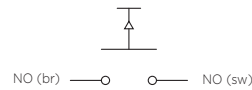
Change-over
Cable exit base



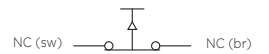
Change-over
Cable exit side



NO

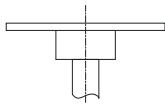


NC



Cable configuration

Cable exit base



Change-over

PVC-Cable H03VV-F 4 x 0.5mm²

NO | NC

PVC-Cable H03VV-F 2 x 0.75mm²

Cable exit side



Change-over

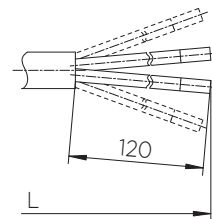
PVC-Cable FLXX 3 x 0.35mm²

NO | NC

PVC-Cable H03VV-F 2 x 0.75mm²

Cable exit

Conductor end sleeve DIN 46 228



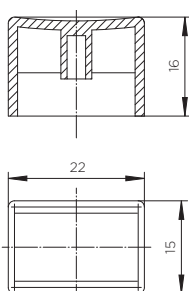
Accessories

Push Button

sturdy for manual actuation

color: grey

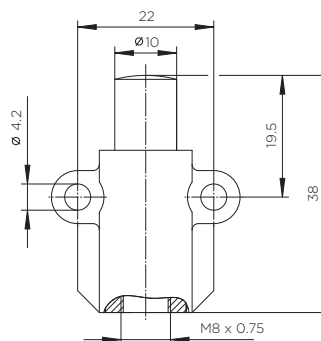
Special symbols and other colors available



Mounting set

for machine operation with cams

additional required force of approx. 10N



KISSLING MICRO SWITCH

Series MND1

Ordering Information

Part Number
example: MND1.021.150
MND1.____.____

	Switching principle	Cable exit	Mounting holes
0	snap switch	base	4
1	snap switch	side	4
7	positive action	base	4
8	positive action	side	4
2	snap switch	base	2.5
3	snap switch	side	2.5
5	positive action	base	2.5
6	positive action	side	2.5

Cabel length in (50cm steps)
____ in (50cm steps)

Switching function

1	Change over - base/side
2	NO
3	NC

Actuator

2	Plunger, long
4	Plunger, short
6	Snap fastener
8	Roller plunger

te.com

TE Connectivity, TE, TE connectivity (logo) and KISSLING (word) are trademarks owned or licensed by the TE Connectivity family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity | All Rights Reserved.
K1166733 | Version 08/2020