

KISSLING MICRO SWITCH

Series MZX1/MZT1/MZN1

QUALITY SWITCH

Our MZW1 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 10A (AC). The housings are made of thermoplastic and are sealed up to IP67 depending on the configuration. This switch is also available in a modified version for special applications of up to 300°C.

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

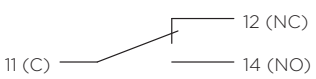
- 1- and 2-pole switches available
- Nominal load up to 10A at 250VAC
- Min. switching current 10mA at 12VDC
- Switching frequency up to 200 cycles/min.
- Variety of available actuator geometries and sizes
- High quality silver alloy or gold plated contacts
- Dimensions according to DIN 41635 Form A

APPLICATIONS

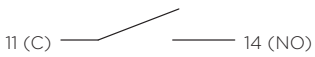
- Automotive equipment
- General mechanical engineering
- Appliance and industrial engineering
- Medical equipment
- Commercial vehicles

SWITCHING FUNCTION

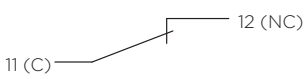
Change-over



NO



NC



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SPECIFICATION

Technical Data Construction	
Housing material	Thermoplast GF
Interior protection / Protection terminals	IP 40 IEC 60529 / IP00 IEC 60529
Positive opening operation (MZT)	Similar DIN EN IEC 60 947-3

Mechanical Data (Change-over)	
Pre-travel	0.5mm - 1.1mm
Overtravel	> 1mm
Movement differential	0.05mm - 0.3mm
Operating force	Class 2: 1N - 1.5N | Class 3: 1.5N - 3N | Class 4: 3N - 4.5N
Release force	Class 2: > 0.6N | Class 3: > 1N | Class 4: > 1N
Max operating force	< 10N
Current carrying parts	CuZn-alloy
Contact material	Silver alloy or gold plated contacts
Mechanical life	10 Mio.
Frequency	200/min
Operating speed in direction of plunger	max. 0.5m/sec
Temperature range	-40˚C to +85˚C
Temperature range (special edition)	-55˚C to +300˚C

Electrical Data	
Nominal voltage	250VAC, 24VDC
Continuous current	10.1A
Min. switching capacity	12VDC, 10mA

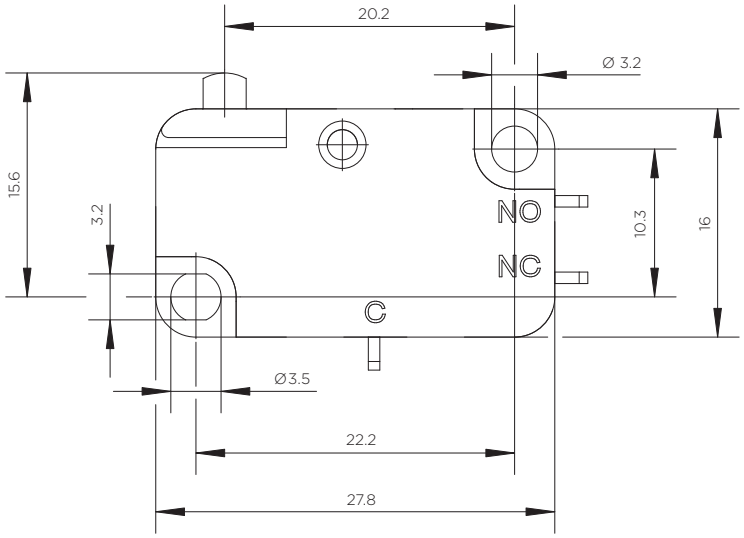
Fast-acting fuse 10 A

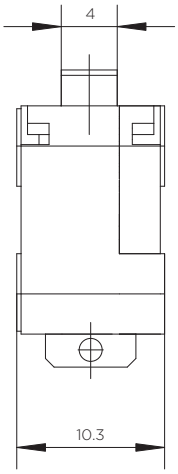
Short circuit protection according EN 60947-5-1 (MZT)

It is recommended to use gold-plated contacts for lower currents or voltages.
Special types upon request.

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TECHNICAL DRAWINGS

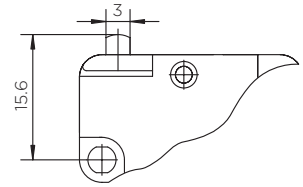




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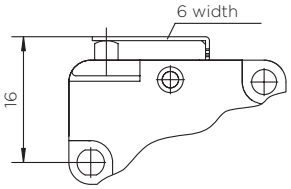
ACTUATORS

Switch actuator



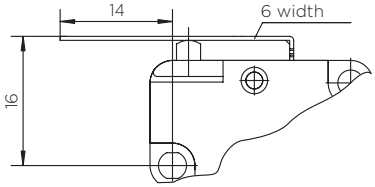
02	250VAC, 24VDC		
Class	2	3	4
OF	1.0-1.5	1.5-3.0	3.0-4.5
P mm	0.5-1.1		
O mm	> 1		
MD mm	0.05-0.3		

Short lever



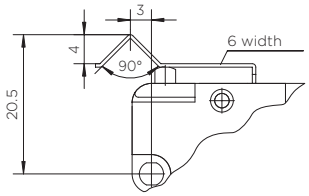
04	MZX1 / MZT1	
Class	3	4
OF	1.5-3.0	3.0-4.5
P mm	0.5-1.1	
O mm	> 1	
MD mm	0.05-0.3	

Long lever



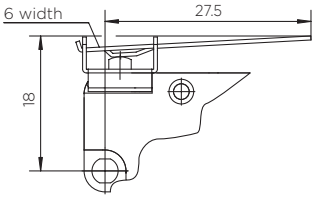
05	MZX1 / MZT1	
Class	3	4
OF	0.5-1.4	1.4-2.5
P mm	1.0-2.5	
O mm	> 2	
MD mm	0.1-0.7	

Lever with angle cam



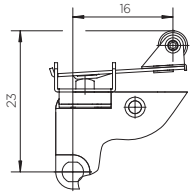
07	MZX1 / MZT1	
Class	3	4
OF	1.0-2.2	2.2-4.0
P mm	0.6-1.5	
O mm	> 1	
MD mm	0.05-0.4	

Long lever



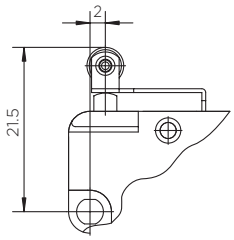
12	MZX1 / MZT1	
Class	3	4
OF	0.25-0.5	0.5-1.0
P mm	2.1-4.0	
O mm	> 0.8	
MD mm	0.3-1.2	

Short lever with roller Ø 5



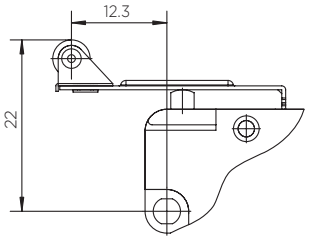
30	MZX1 / MZT1	
Class	3	4
OF	0.35-0.8	0.8-1.3
P mm	1.5-2.5	
O mm	> 0.8	
MD mm	0.3-1	

Short lever with roller Ø 5



36	MZX1 / MZT1	
Class	3	4
OF	1.5-3.0	3.0-4.5
P mm	1.5-1.1	
O mm	> 1	
MD mm	0.05-0.3	

Lever with roller Ø 5



37	MZX1 / MZT1	
Class	3	4
OF	0.5-1.4	1.4-2.5
P mm	1.0-2.5	
O mm	> 0.8	
MD mm	0.1-0.7	

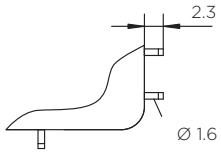
Roller material plastic, optional material brass or steel

Description:
OF = Operating force
O = Overtravel
P = Pretravel
MD = Movement differential

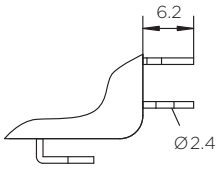
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CONNECTION TYPES

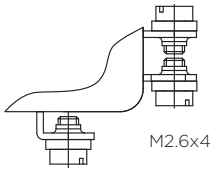
Solder Connection



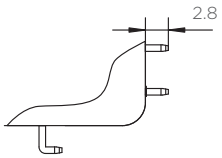
Solder Connection



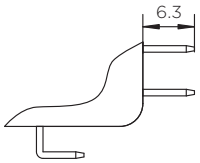
Screw terminals M2.6



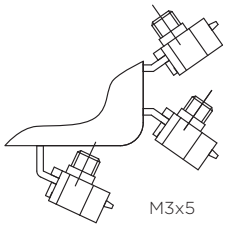
Faston terminals 2.8 x 0.8



Faston terminals 6.3 x 0.8



Screw terminals M3



ORDERING INFORMATION

Part Number
example: MZX1.361.305
MZ_1 ._ _ _._ _ _

Series

X	Snap switch
T	Snap switch with positive action
N	Main disconnecting switch

Actuator

__	Select on page 3

Switching function

1	Change-over
2	NO
3	NC

Connection types

02	Solder Connection 2.5
04	Solder Connection 6.2
05	Screw terminals M 2.6
06	FASTON terminals 2.8 x 0,8
08	FASTON terminals 6.3 x 0.8
09	Screw terminals M3

Class

2	select on page 3
3	select on page 3
4	select on page 3

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