

Limit Switch Type 055.010.6 (Mechanical Operation, Multi-directional)

Application

The limit switch is used to monitor and measure axial or radial mechanical movements and adjustments e.g. on EAS®-clutches. The device is suitable for clutches with a minimum stroke of 1.1 mm with radial actuation and 0.9 mm with axial actuation.



Function

By actuating the metal tappet, contacts 11 – 12 are opened.

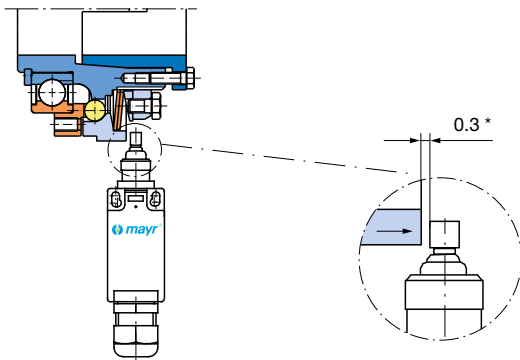
Electrical Connection (Terminals)

11 – 12 NC contact

Technical Data

Contact	1 x NC contact, positive opening contacts 
Contact (Special Design)	additional 1 x NO contact, terminals 23 – 24, galvanically separated (Zb)
Contact-opening	see Switching Travel Diagram
Contact-closing	see Switching Travel Diagram
Contact-load	NC contact 250 VAC / 2.5 A 24 VDC / 1 A
	min. 12 VDC / 10 mA
Contact distance 250 VAC	>1.25 mm axial, forced opening
Contact distance 24 VDC	<1.25 mm, min. 0.5 mm
Contact material	Ag90Ni10
Max. input current	acc. DIN EN 60947-5-1 AC15 / DC13
Metal tappet travel	max. 4 mm axial or radial
Switching frequency	max. 100/min.
Mechanical lifetime	1 x 10 ⁶ switching cycles, unloaded
Conductor cross-section	1.5 mm ² / AWG 16
Ambient temperature:	-30 °C up to +80 °C
Protection	IP65
Protection insulation	acc. Protection Class II 
Housing	thermoplastic, self extinguishing acc. UL94-V0
Weight	120 g / 4.2 oz

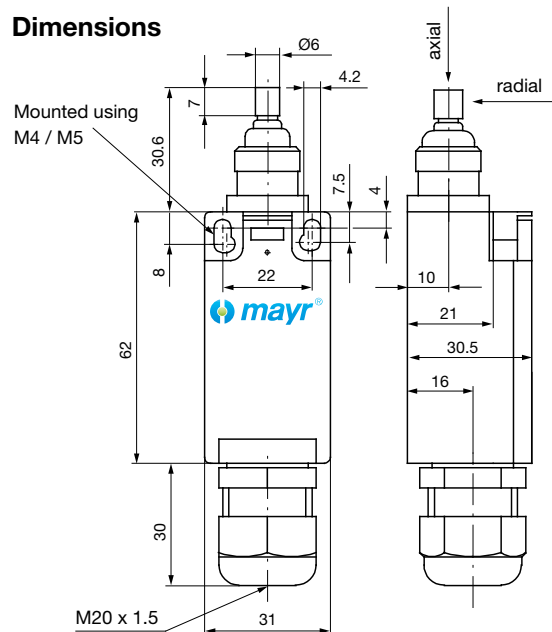
Installation



* Switch distance on engaged clutch

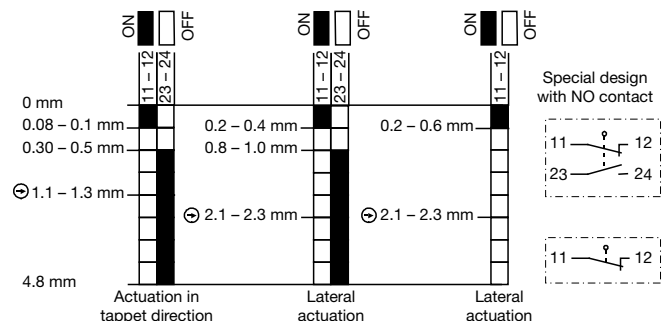


Dimensions



Fixed positioning for safety application with fixing screws
2 x M5 (DIN 912).

Switching Travel Diagram



Do not install switch so that it drags and observe
max. actuation travel (travel of metal tappet).

Order Number

0 5 5 . 0 1 0 . 6