Limit Switch Type 055.00_.5 (Contactless)

Application

This device is used for measuring and monitoring axial and radial disengagement movements, e.g. on EAS®-clutches. It acts as a control sensor for electronic and mechanical sequences.

Function

When the sensor surface of the NAMUR sensor scans a metal control flag (damped), the signalling relay is triggered, is deenergised and drops. Contacts 1 - 2 are opened. Damping is possible from all sides.

Electrical Connection (Terminals)

1 – 2 – 3	Floating change-over contacts
5 – 6	Connection input voltage

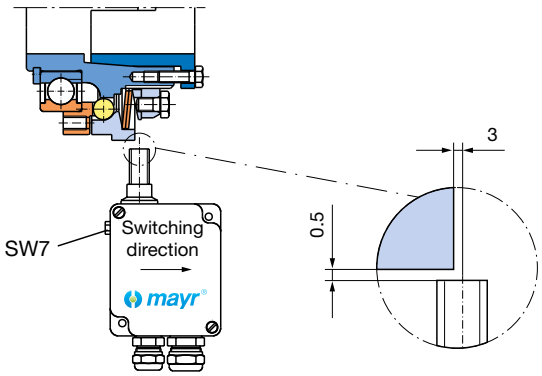
Design

The electronic amplifier is installed in a light metal housing. The limit switch is fixed using two screw-on mounting links attached diagonally with M4 cap screws.

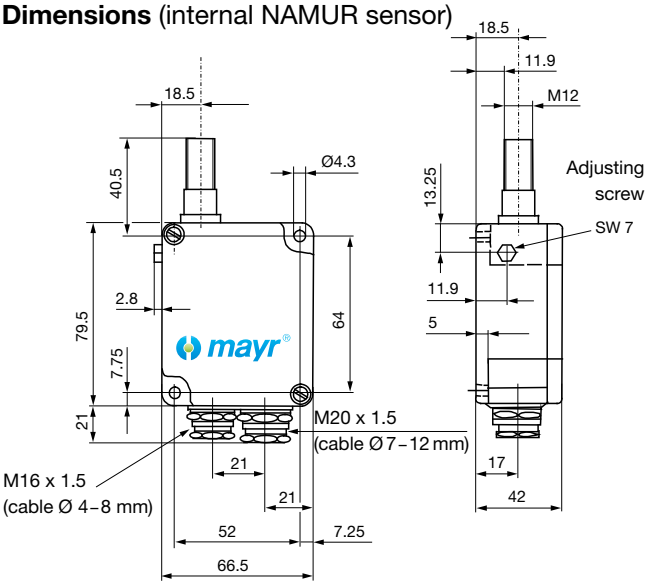
Technical Data

Input voltage (dependent on design)	230 VAC, ±10 %, 50 – 60 Hz 115 VAC, ±10 %, 50 – 60 Hz 24 VDC, PELV, ±5 %, protected against reverse polarity, for overvoltage category II connection
Power consumption	Max. 1.5 VA
Ambient temperature	-10 °C up to +60 °C limit switch -25 °C up to +60 °C NAMUR sensor
Protection	IP54
Conductor cross-section	Max. 2.5 mm² / AWG 14
Weight	400 g / 14 oz
Protection fuse	0.1 A/fast acting at 24 VDC (in system)
Signalling relay	Floating change-over contacts Contact load max. 250 VAC / 12 A Contact material AgNi 90/10 max. switching frequency 20 Hz at min. load, 0.1 Hz at max. load
NAMUR sensor internal	Installed in a light metal housing, switching distance S_n 2 mm, flush fitting, max. switching frequency 2 kHz, the zero point can be set per 1 mm by means of the lateral adjusting screw SW 7
NAMUR sensor external	Metal housing M12 x 1, switching distance S_n 2 mm, flush fitting, max. switching frequency 2 kHz, standard cable length 2 m, max. 100 m on special design, protection IP67

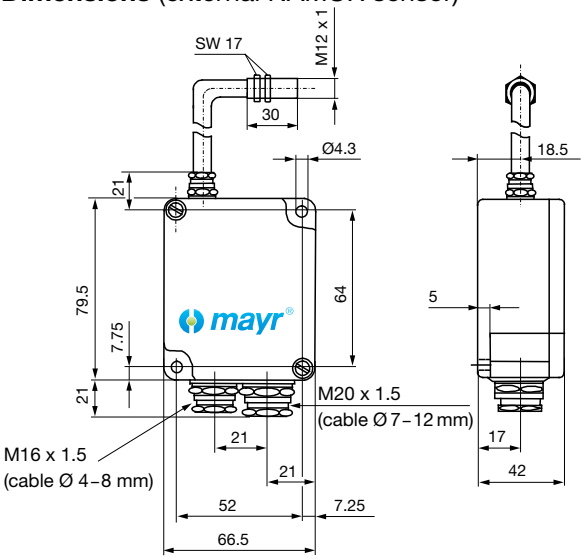
Installation



Dimensions (internal NAMUR sensor)



Dimensions (external NAMUR sensor)



Order Number

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Contactless sensing		Connection voltage
Sensor external	1	230 VAC
Sensor internal	2	115 VAC
		24 VDC