

## ROTONDO TRACTION SWITCH

The ROTONDO traction switch is suitable for use as a setpoint generator for electrically powered vehicles and other systems. Its design and its housing with an integrated mounting flange make it very easy to install. The version with a through shaft is used for applications with two butterfly knobs. A version with a single shaft on one side is also available. Besides the analogue signal for the travel speed setpoint, the traction switch also delivers two digital direction signals.

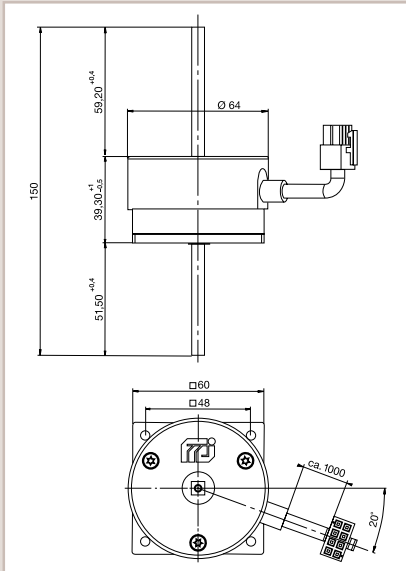
- Different shaft versions are available (single-sided and through shaft)
- Angle of rotation:  $\pm 48^\circ$
- Membrane-sensor technology
- Potentiometer analogue output (V characteristic) for travel speed
- Nominal supply voltage: 24 VDC, separate potentiometer supply max. 12 VDC
- Available with active-low or active-high digital signals
- Protection class: IP 54 (except for the connector)
- Various butterfly knobs available

# Traction switch

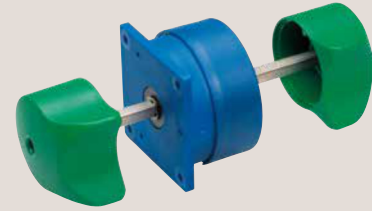
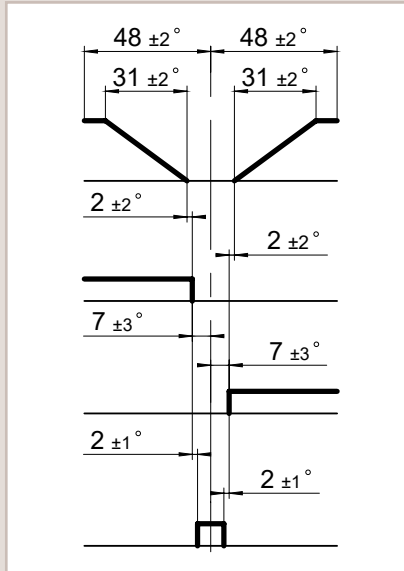


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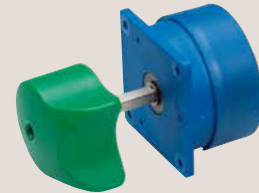
## Dimensions [mm]



## Characteristic curve



Continuous axle



Single-sided axle

## Technical data

### Mechanical data

Dimensions	See drawing
Mechanical movement	2 x 48°
Actuation	Square axle of size 6 x 6 mm
Contact system	Cable with 8-pin
39-01-2080	Molex Mini-Fit, Jr.™

### Electrical data

Rated operating voltage	24 VDC (16.5 to 32 VDC)
Power consumption	< 20 mA
Supply voltage potentiometer	12 V max.
Resistance track potentiometer	5.875 kΩ
Max. current, analogue output	0.5 mA
Digital signal	
Output	Transistor with open collector
Max. permissible voltage	35 VDC
Max. permissible current	10 mA

### Operating conditions

Operating temperature range	-30°C to +50°C
Service life	2 million cycles
Vibration test	DIN EN 60068-2-6/27/29
EMC	DIN EN 12895
Degree of protection according to DIN 60529	IP 54 (except for the connector)

## Order data

Part No.	Designation
3105-00130-00	Continuous axle
3105-00130-0X	Single-sided axle

## Connector pin assignment Molex Mini-Fit, Jr.™

PIN	Signal
1	GND
2	Supply voltage (+ 24 V)
3	Digital signal – travel direction 1
4	Digital signal – travel direction 2
5	Analogue output (set value)
6	U <sub>s</sub> potentiometer
7	GND potentiometer
8	Optional

## Connecting diagram

