

TW-34-IP40 Trackball

Trackball module, ø 34 mm, for use as integrated cursor control for keyboards, process control application, consoles.

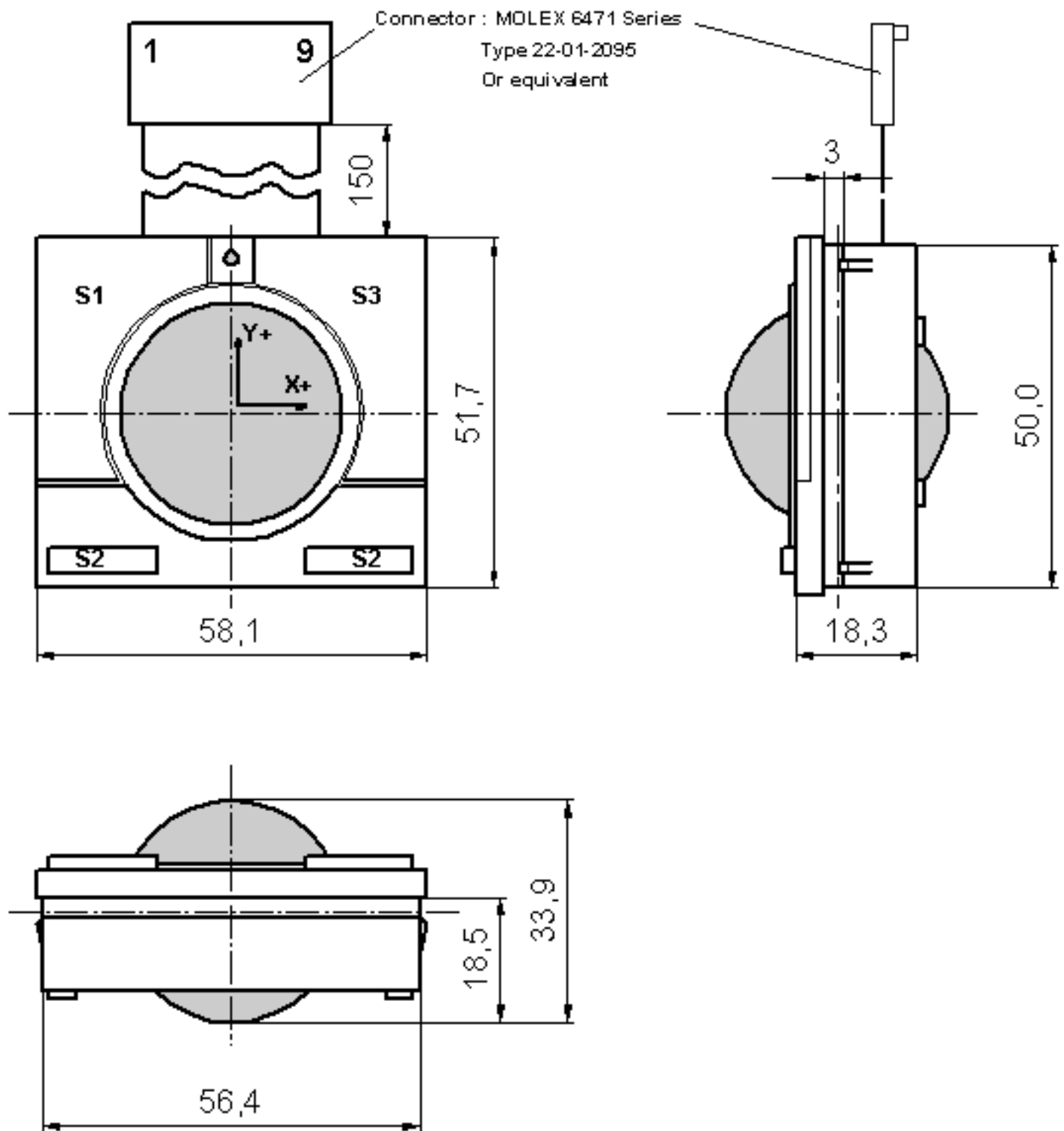
**Description**

The TW-34 is a high-quality, easy-running [Trackball](#) with 4 keys. Primary usage is building into OEM keyboards and front plates.

- already includes 4 buttons
- precise performing tracking
- compact dimensions
- module easy snap-in-mountable

Output Connector:

Pin	Quadrature Output
1	+5V DC
2	X2
3	X1
4	Switch 1
5	Switch 2
6	LED (grÃ¼n)
7	Y2
8	Y1
9	Switch 3
10	Switch 4
11	GND
12	-



Specification**Mechanical data**

Dimensions:	58,17 x 51,72 x 34 mm
Weight:	0,075 kg
Housing:	Plastic
Degree of Protection:	IP40
Color:	computer grey

Keys

Key Technology:	micro switch
Number of Keys:	4

Electric Data

Operating Voltage:	5 ± 0,25 V
Operating Current:	10 mA

Environment

Operating Temperature:	from -10 °C to +55 °C
Storage Temperature:	from -20 °C to +60 °C
Humidity:	min. 30%, max. 95%, not condensing

Additional Information

Ball material:	Polyester
Ball colour:	grey
Tracking force:	7 g continuous
Ball load:	100 N max. downward pressure
Ball rotation:	continuous and reversible - any direction
Ball speed:	100 RPM max.
Transducers:	photo-optical encoders with LED's
Mounting position:	horizontal to 30°
Resolution (Quadrature-Output):	183 pulses per ball revolution
Vibration:	5 Gs, 2-5KHz - any direction
Shock:	100 Gs, - duration 11ms
Lifetime:	> 3 Mio. ball revolutions

Order Information

Order No.	Article
TS1031	TW-34-IP54

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