

RAFI

LINEAR JOYSTICK

INTUITIVE LINEAR OPERATION FOR MAXIMUM
PRECISION AND SAFETY



**Illuminated capacitive
Hand detection
Analog/SENT interfaces**



The compact linear joystick delivers precise performance thanks to modern 3D Hall sensors and integrated capacitive hand detection for maximum operational reliability. The illuminated, ergonomically designed handle concept ensures fast, intuitive and safe operation even under demanding conditions. With optional SENT signal and robust industrial design, it is ready for high-performance, future-proof system solutions.

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TECHNOLOGY HIGHLIGHTS

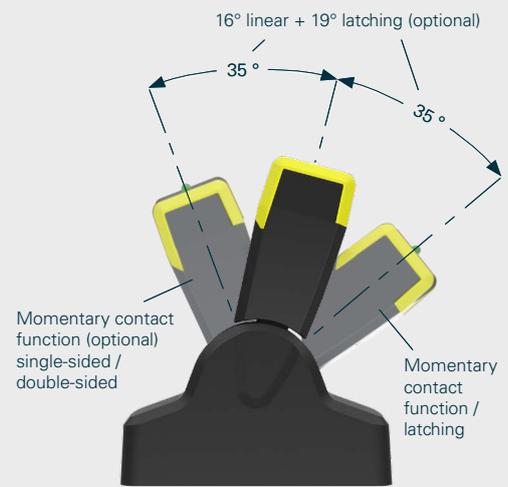
Compact single-axle joystick for ergonomic finger operation. The capacitive sensors in the optimally shaped, illuminated handle ensure a high degree of operating safety.

Installation size/flange	25 x 43 mm
Orthogonal deflection	35° in each case
Gates	Linear, momentary contact function, latching
Sensor system	Hall sensors Wear-free, contactless
Interfaces	Analog / SENT
Operating torque <small>Depends on sctuator spring, folding bellows, bearing shell (locking/preferred guidance)</small>	0,05-0,1Nm linear range 0,1-0,2Nm detent function
Shock resistance	100N
Operating life <small>Under climatic influence (-40 °C to +85 °C)</small>	Lineare deflection: 1,5 million cycles Detent function: 1 million cycles
Temperature range	-40 °C to +85 °C
IP degree of protection	IP54

ELECTRICAL DATA

- Safety-ready up to AgPL c, PL c
- Hall sensor with self-diagnosis
- Capacitive hand detection
- Analog semi-redundant or SENT (external magnetic field resistant)
- Illuminated
- 5V DC
- Plug: Molex Pico-Clasp

MECHANICAL PROPERTIES



VARIATIONS

Haptic	Illumination	Hand detection	Interfaces	Color insert
Momentary contact function	Yes	Yes	Analog	Black
Overtravel momentary contact	No	No	SENT	Anthracite
Latching				Blue
Latching pushbutton				Red
Single-sided latching				Yellow
				Green
				Orange
				White

Illuminated

Hand detection

Color insert

51,1 mm

43 mm

25 mm



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