

Contact-Free Limit Switch Type 024.50

Limit switches are used to control, monitor and view the position of the valve or to activate other system components.

There are different versions of on/off limit switches in the market. The most common are based on the principle of mechanical switches, proximity sensors or potentiometers.

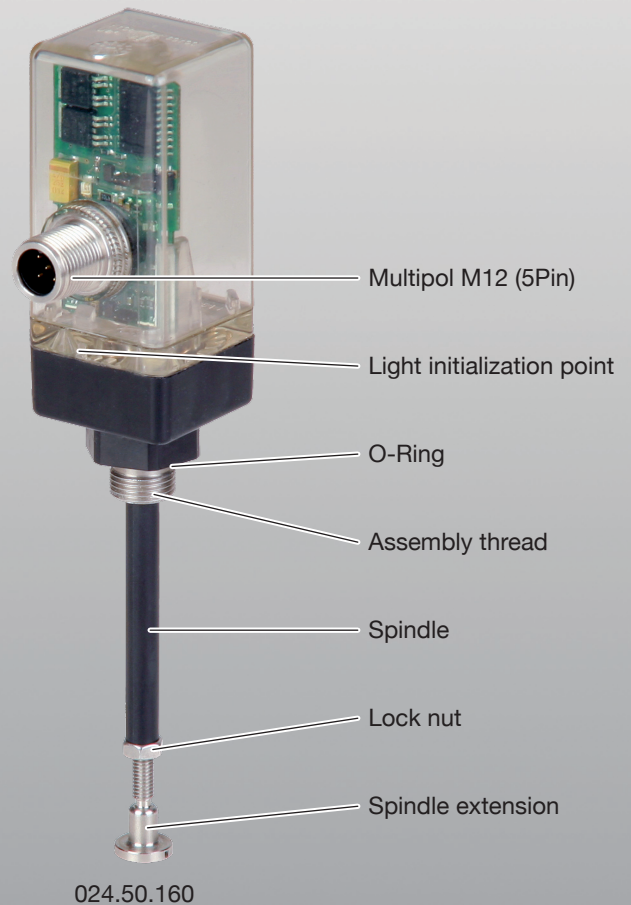
SED has designed and engineered a contact-free limit switch with magnet field measurement technology. Apart from lifetime and among other features the advanced design allows also a more reliable sealing method.

Features

- For single and double acting valve control functions
- Suitable for linear and rotary actuators
- Linear stroke measurement of 3-45 mm
- Indicates two or three positions
- Backlash free stroke transmission
- Short circuit proof
- M12, 5 pin A-coded connection

Advantages

- Contact-Free magnetic measuring design
- Colored LED light feedback of valve position visible for 360°
- Compact and robust design
- Hermetically sealed
- Easy mounting without additional adapter kits
- Mounts to all standard valves up to DN100
- 360° adjustable mounting position
- Initial programming by light or 24V Signal (5th pin)
- Set point protection
- High switching current
- High chemical resistance



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Technical Data

Material Housing	PSU
Mechanical Adaption	St. Steel M12x1, M16x1, other options
Ambient Temperature	-10°C to + 70°C
Maximum Pressure	8 bar
Power Supply	24V DC +/- 10%
Power Consumption	0,7 W
Maximum Power Input	30 mA
Electrical Connection	Multipol M12, 5 Pin, A-coded
Switching Current	800 mA
Stroke Range	3 - 45 mm
Accuracy	+/- 0,1 mm
Protection Class	IP67 according EN 60529
Conformity according CE	EMV-9/336/EWG
Mounting Position	any
Initialization	Light or 24V Signal (5 th pin)

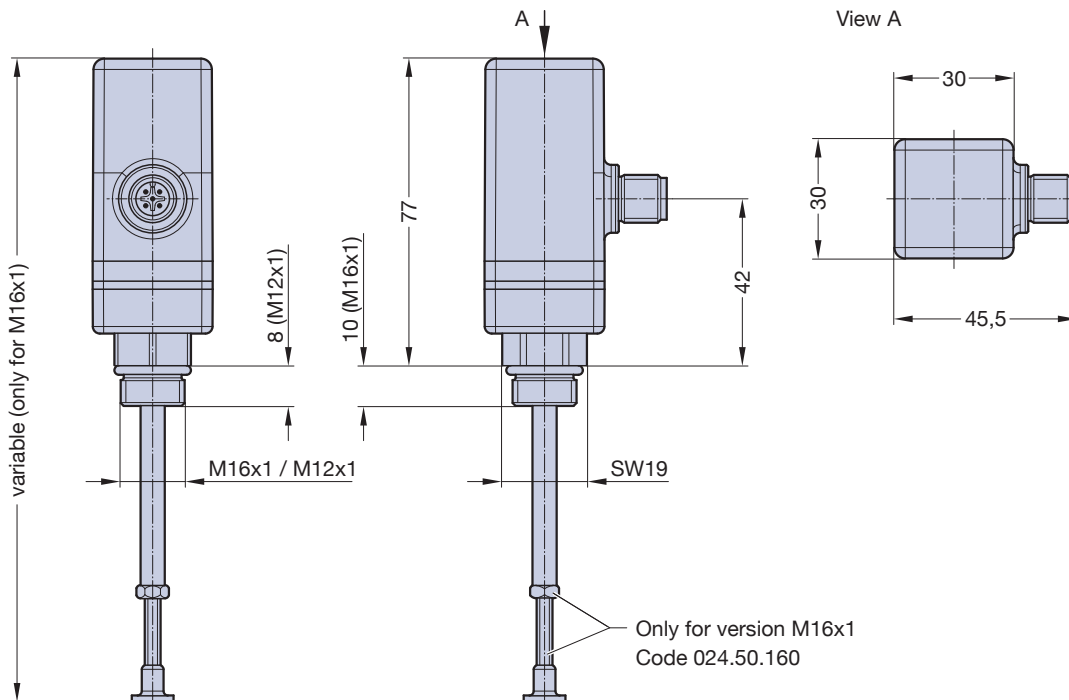
Ordering Key

Assembly Thread	Code	
	for Linear Actuator	for Rotary Actuator
M12x1	024.50.120	n.a.
M16x1	024.50.160	024.50.260

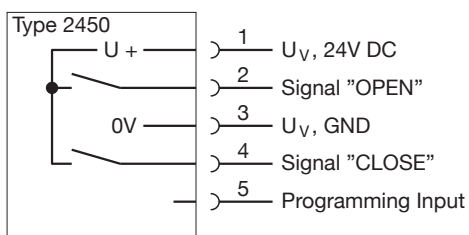
Optical Position Feedback

Position	LED Indication	
open	permanent green	
interim, if any	permanent yellow	
closed	permanent blue	
moving open	blinking green	
moving closed	blinking blue	

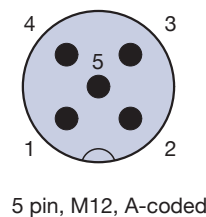
Dimensional Drawing



Electrical Connection



Pin Configuration



Accessories

5 m cable with 5 pin A-coded female plug,
Code 00311.2450.006

Optional

Teach-In cable for the programming via the 5th pin,
Code 00311.2450.005