

## Contact - Free Limit Switch 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.



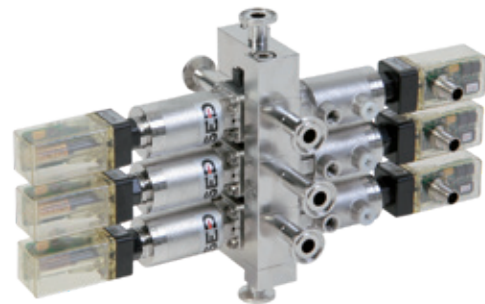
Standard Version

### Features

- For single and double acting valve control functions
- Suitable for linear and rotary actuators
- Power supply and programming 24V DC or 8V DC
- 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

Optional:

- Atex II 3G
- IO-Link



Application example

### 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 (not valid for IO-Link)
- High chemical resistance

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### Technical Data

Material Housing	PPSU
Mechanical Adaption	St. Steel M12x1, M16x1
Ambient Temperature	-10°C to + 70°C
Maximum Pressure	8 bar
Power Supply	Standard and II 3G = 24V optional 8V
Power Consumption	0,7 W
Maximum Power Input	30 mA
Electrical Connection	Multipol M12, 5 Pin, A-coded
Switching Current	1 ... 800 mA
Stroke-/ Slewing- Range	3 - 45 mm / 360°
Accuracy	+/- 0,1 mm
Protection Class	IP67 according EN 60529
Conformity according CE	EMV 2014/30/EU
Mounting Position	any
Initialization	Light or 24V Trigger/IO-Link

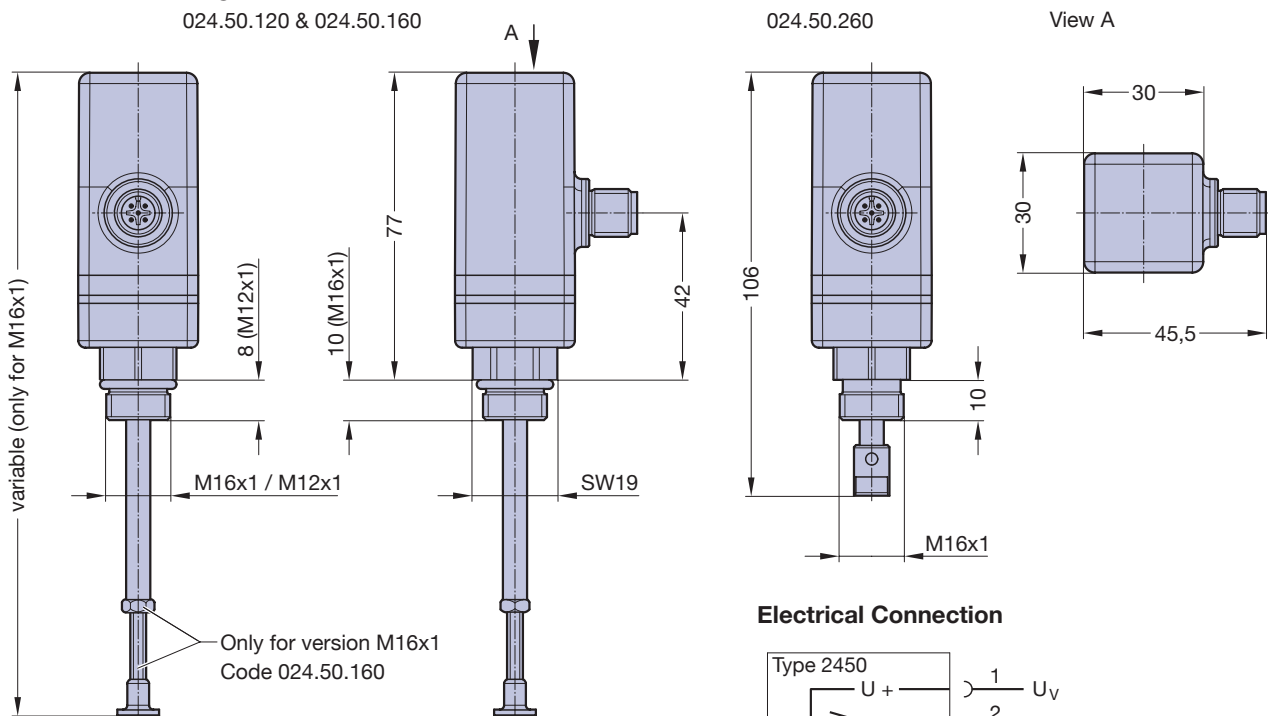
### Ordering Key

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



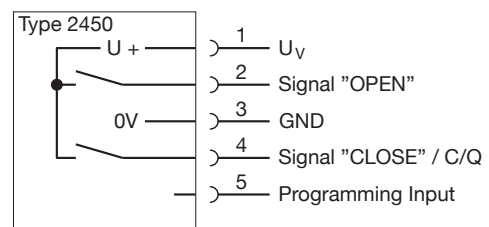
### Accessories

- 2 m cable with 4 pin female plug for explosion-risk areas, Code 00311.2450.006.4
- 5 m cable with 5 pin female plug, Code 00311.2450.006.1
- 10 m cable with 5 pin female plug, Code 00311.2450.006.2

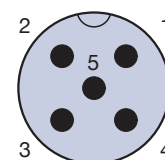
### Optional

Teach-In cable for the programming via the 5<sup>th</sup> pin, Code 00311.2450.005

### Electrical Connection



### Pin Configuration



5 pin, M12, A-coded