



## Single-beam photoelectric safety switch L27

L27E-3P2450, L27S-3D2450



#### Receiver

Model Name > L27E-3P2450  
Part No. > 2043876



#### Sender

Model Name > L27S-3D2450  
Part No. > 2043877



#### At a glance

- Universal use up to Type 2, with safety control solutions from SICK
- Compact size with ranges up to 35 m
- Integrated heating
- Temperature range from -40 °C ... + 55 °C
- Enclosure rating IP 67

#### Your benefits

- Easy integration due to small, compact versions with maximum range
- Directly connect to a safety controller - without a separate evaluation unit, reducing costs
- Flexible device integration makes it possible to set up individual protective fields
- Well suited to withstand extreme ambient conditions such as heat, cold or moisture



#### Applications

Access protection (vertical): 1

#### Technical Data-Sender

Typical range:	0 m ... 25 m
Maximum scanning range:	0 m ... 35 m
Number of beams:	1
Light spot diameter (distance):	200 mm (10 m)
Aperture angle/receiving angle:	according to type 2 (IEC 61496-2)
Light sender/type of light:	LED/visible red light
Wave length:	660 nm
Average service life (TA):	100,000 h (25 °C)
Protection class:	II
Enclosure rating:	IP 67

Type:	Type 2 (EN 61496) <sup>1)</sup>
Safety integrity level:	SIL1 (IEC 61508) SILCL1 (IEC 62061) <sup>2)</sup>
Category:	category 2 (EN ISO 13849) <sup>3)</sup>
Test rate (external test):	100 /s (EN ISO 13849) <sup>4)</sup>
Maximum demand rate:	60 /min (EN ISO 13849) <sup>5)</sup>
Performance level:	PL c (EN ISO 13849) <sup>6)</sup>
PFHd:	1.0 * 1E-06 <sup>7)</sup>
TM (mission time):	20 a
Supply voltage typical, from, to:	24 V DC, 16.8 V DC, 28.8 V DC <sup>8)</sup>
Maximum power consumption:	≤ 35 mA
Diagnostic display:	LED
Design:	Rectangular
Dimensions (W x H x D):	80.6 mm x 24.6 mm x 54 mm
Connection type:	plug M12 x 4
Housing material:	ABS
Ambient operating temperature from ... to:	-40 °C ... 60 °C
Storage temperature from ... to:	-40 °C ... 75 °C
Weight:	100 g

1) 2) 3) 6) 7) Only in conjunction with suitable testing device, e.g., Flexi Classic, DeviceNet Safety <sup>4)</sup> The test rate shall not be exceeded <sup>5)</sup> Between two demands on a safety-related response of the device, at least 100 internal or external tests must be carried out. <sup>8)</sup> Reverse polarity protected

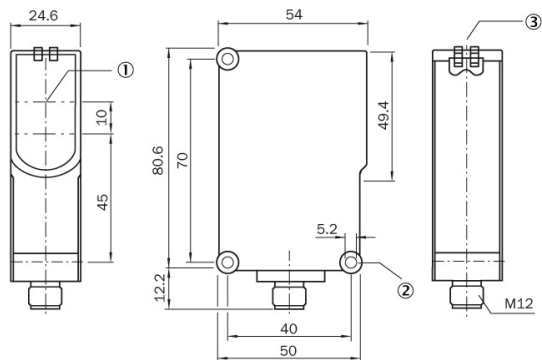
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Supply voltage typical, from, to:	24 V DC, 16.8 V DC, 28.8 V DC <sup>8)</sup>
Switching outputs:	PNP, Q and Q not <sup>9)</sup>
Maximum switching sequence:	1,000 Hz
Maximum switching current:	100 mA
Maximum power consumption:	≤ 25 mA
Diagnostic display:	LED
Design:	Rectangular
Dimensions (W x H x D):	80.6 mm x 24.6 mm x 54 mm
Connection type:	plug M12 x 4
Housing material:	ABS
Ambient operating temperature from ... to:	-40 °C ... 60 °C
Storage temperature from ... to:	-40 °C ... 75 °C

Weight: 100 g

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## Dimensional drawing



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