



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

- Type 2 (IEC 61496), PL c (EN ISO 13849), only in conjunction with suitable testing device, e.g., Flexi Classic or Flexi Soft
- Compact size with ranges up to 35 m
- Integrated heating
- Enclosure rating IP 67
- Temperature range from -40 °C to +60 °C

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 m25 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 (EN 50178)

Enclosure rating:	IP 67 (IEC 60529)
Type:	Type 2 (EN 61496) ¹⁾
Safety integrity level:	SIL1 (IEC 61508) SILCL1 IEC 62061 ²⁾
Category:	category 2 (EN ISO 13849) ³⁾
Test rate (external test):	100 /s (EN ISO 13849) ⁴⁾
Maximum demand rate:	60 /min (EN ISO 13849) ⁵⁾
Performance level:	PL c (EN ISO 13849) ⁶⁾
PFHd:	10^{-6}
TM (mission time):	20 a
Supply voltage typical, from, to:	24 V DC, 16.8 V DC, 28.8 V DC ⁸⁾
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:	connector M12, 4-pin
Housing material:	ABS
Weight:	100 g
Ambient operating temperature:	-40 °C ... 60 °C
Storage temperature:	-40 °C ... 75 °C

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

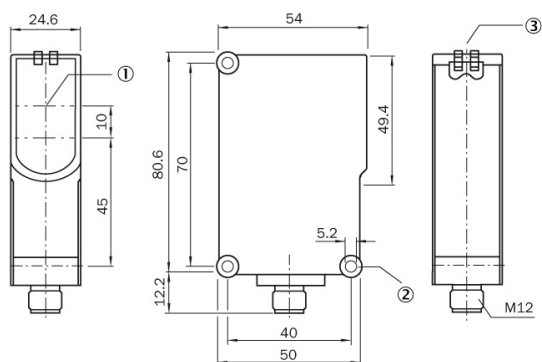
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PFHd:	10^{-6}
TM (mission time):	20 a
Supply voltage typical, from, to:	24 V DC, 16.8 V DC, 28.8 V DC ⁸⁾
Switching outputs:	PNP, Q and Q not ⁹⁾
Maximum switching current:	100 mA
Maximum power consumption:	≤ 25 mA
Diagnostic display:	LED
Design:	Rectangular
Dimensions (W x H x D):	80.6 mm x 24.6 mm x 54 mm
Connection type:	connector M12, 4-pin
Housing material:	ABS

Weight: 100 g
 Ambient operating temperature: -40 °C ... 60 °C
 Storage temperature: -40 °C ... 75 °C
 Switching frequency: 1,000 Hz

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Dimensional drawing



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