



Single-beam photoelectric safety switch L41

L41E-21KA1A, L41S-21KA1A



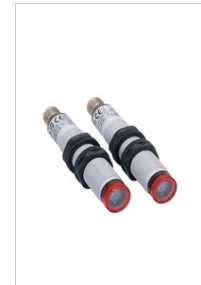
Receiver

Model Name > L41E-21KA1A
Part No. > 6034865



Sender

Model Name > L41S-21KA1A
Part No. > 6034864



At a glance

- Small M18 sensors with ranges up to 10 m
- Compact M30 sensors with ranges up to 60 m
- Universal use up to Type 4, with safe control solutions from SICK
- 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 test box, 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

Scanning range: 0 m ... 10 m
 Number of beams: 1
 Optical axis: axial
 Aperture angle/receiving angle: according to type 4 (IEC 61496-2)
 Light sender/type of light: LED/visible red light
 Wave length: 660 nm
 Protection class: III
 Enclosure rating: IP 67
 Type: Type 4 (IEC 61496) ¹⁾
 Safety integrity level: SIL3 (IEC 61508) ²⁾
 SILCL3 (IEC 62061) ²⁾

Category:	category 4 (EN ISO 13849) ³⁾
Performance level:	PL e (EN ISO 13849) ⁴⁾
PFHd:	8.1 *1E-10 ⁵⁾
TM (mission time):	20 a
Supply voltage typical, from, to:	24 V DC, 19.2 V DC, 28.8 V DC
Maximum power consumption:	≤ 20 mA
Design:	cylindrical
Dimensions (diameter x length):	M18 x 97.7 mm
Connection type:	plug M12 x 4, straight
Housing material:	Plastic
Lens material:	glass
Ambient operating temperature from ... to:	-40 °C ... 55 °C
Storage temperature from ... to:	-40 °C ... 55 °C
Air humidity from ... to:	non-condensing 15 ... 95 %
Vibration resistance (checked to):	5 g (IEC 60068-2-6)
Oscillation frequency from ... to:	10 Hz ... 55 Hz
Shock resistance:	10 g, 16 ms (IEC 60068-2-29)
Weight:	30 g

1) 2) 3) 4) 5) Only in conjunction with suitable testing device, e.g., Flexi Classic, DeviceNet Safety

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TM (mission time):	20 a
Supply voltage typical, from, to:	24 V DC, 19.2 V DC, 28.8 V DC
Switching outputs:	PNP, Q ⁶⁾
Maximum response time:	200 µs
Maximum switching current:	70 mA
Maximum power consumption:	≤ 30 mA
Design:	cylindrical
Dimensions (diameter x length):	M18 x 97.7 mm
Connection type:	plug M12 x 4, straight
Housing material:	Plastic
Lens material:	glass
Ambient operating temperature from ... to:	-40 °C ... 55 °C
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30 g

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