Optical slot sensors

SL10 and SL(O)30 series
optical slot sensors

Wave length
Red 680 nm (SL10 and SL30)
IR (infrared) 890 nm (SLO30)

Adjustment
sensitivity (SL10 and SL30)
light/dark operate 1)

Supply
Supply voltage 10…30 V dc
Ripple Vpp ≤ 10 %
No load current ≤ 30 mA

Protection
reverse polarity transient voltages
short-circuit

Output
Continuous load current ≤ 150 mA
Switching frequency ≤ 500 Hz ≤ 1,6 kHz (…Y)

Material
Housing glass-fibre reinforced polyester
acrylic
Lens acrylic
Protection class IP67
(IEC 60529/EN 60529)
Temperature range -40…+70 °C
Cable 2 m, PVC, 5 x 0,5 mm 2
Connector eurocon (M12 x 1)

Indicator LED’s
Green power-on
Yellow output energised
Yellow flashing low gain

Accessories
Connector
WAK4.5-2/P00 80 085 76 straight type
WWAK4.5-2/P00 80 085 83 right-angled type

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Dimensions [mm]

- **Cable**

  - SL10...
  - SL(O)30...

- **Connector**

  - SL10...
  - SL(O)30...

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**Wiring**

1) light operate: grey connected to "-" or open
dark operate: grey connected to "+"
## SL10 and SL(O)30 optical slot sensors

<table>
<thead>
<tr>
<th>Slot width</th>
<th>Light source</th>
<th>Output function</th>
<th>Connection</th>
<th>Type</th>
<th>Ident number</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 10 mm</td>
<td>red pnp, npn</td>
<td>cable</td>
<td>SL10VB6V</td>
<td>30 583 23</td>
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<tr>
<td>350 10 mm</td>
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<td>connector</td>
<td>SL10VB6VQ</td>
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<td>connector</td>
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<td>30 603 68</td>
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<tr>
<td>150 30 mm</td>
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<td>cable</td>
<td>SL30VB6V</td>
<td>30 565 65</td>
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<td>30 565 67</td>
<td></td>
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<tr>
<td>80 30 mm</td>
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<td>30 565 66</td>
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</table>

* Excess gain: the amount of light on the receiver over and above the minimum amount of light required to operate the sensor.

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These sensors do not include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A sensor failure or malfunction can result in either an energised or de-energised output condition. These products should not be used as sensing devices for personnel safety.