



OLV80-11234
OLV

NON-CONTACT MOTION SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	part no.
OLV80-11234	6049092

Other models and accessories → www.sick.com/OLV

Detailed technical data

Mechanics/electronics

Supply voltage V_s	DC 18 V ... 30 V ¹⁾
Ripple	< 5 V _{pp} ²⁾
Power consumption	< 7 W
Enclosure rating	IP67
Protection class	III

¹⁾ Limit values, reverse-polarity protected.

²⁾ May not fall below or exceed U_V tolerances.

Performance

Speed measuring range	3 m/min ... 4,800 m/min
Accuracy	± 0.05 % ¹⁾
Output time	20 ms
Light source	Laser, infrared
Laser class	3B (IEC 60825-1:2014) EN 60825-1:2014
Typ. light spot size (distance)	2 mm x 2.5 mm (240 mm)
Reading distance	240 mm, ± 10 mm
Angle between laser beams	Approx. 3°

¹⁾ Accuracy of measurement; at length from 5 m: 1 σ, from 10 m: 2 σ, from 20 m: 3 σ.

Interfaces

Serial	✓, RS-232, RS-422, RS-485
Incremental	✓, TTL
Remark	3 x 5 V, TTL freely configurable

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2 (2006-03) / EN 61000-6-4 (2007-09)
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¹⁾ May not fall short of or exceed V_S tolerances.

²⁾ Max. 95 % humidity, non-condensing.

Ambient temperature, operation	+10 °C ... +45 °C ¹⁾
Ambient temperature, storage	-25 °C ... +75 °C ²⁾
Vibration resistance	DIN/EN 60068-2-6, DIN/EN 60068-2-64
Shock resistance	DIN/EN 60068-2-27

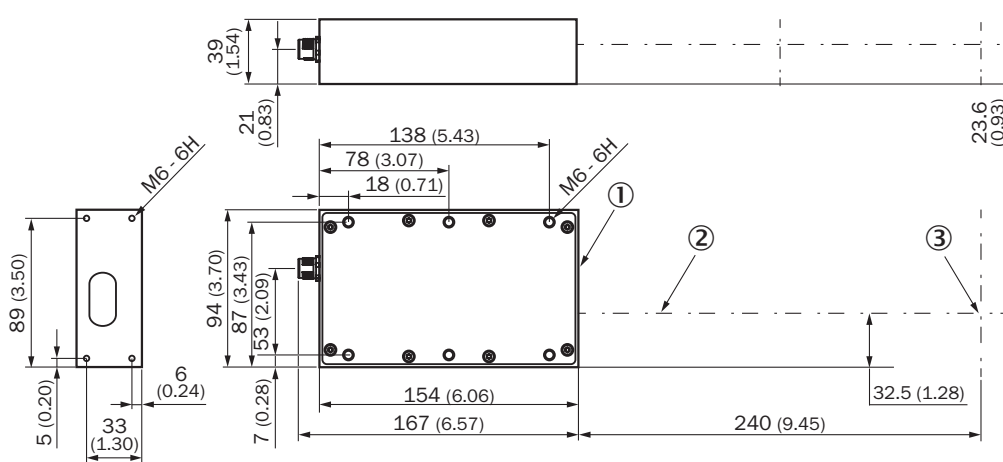
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Classifications

ECLASS 5.0	27270890
ECLASS 5.1.4	27270890
ECLASS 6.0	27270890
ECLASS 6.2	27270890
ECLASS 7.0	27270890
ECLASS 8.0	27270890
ECLASS 8.1	27270890
ECLASS 9.0	27270890
ECLASS 11.0	27270790
ECLASS 12.0	27275201
ETIM 5.0	EC001825
ETIM 6.0	EC001825
UNSPSC 16.0901	39121528

Dimensional drawing OLV80-x




Dimensions in mm (inch)

- ① reference edge
- ② Optical axis
- ③ Measurement volume

Recommended accessories

Other models and accessories → www.sick.com/OLV

	Brief description	Type	part no.
integration modules and adapters			
	<ul style="list-style-type: none">Description: Connection box for Power, I/O, with RS-232 interface for connecting the configuration interface and RS-422/-485 interface (switchable) for connecting the multifunctional interface	OLV-SBX	6048590

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com