

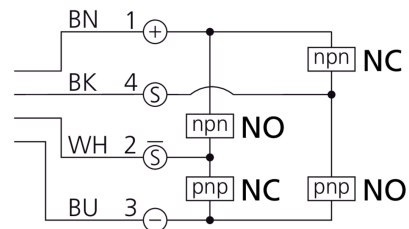
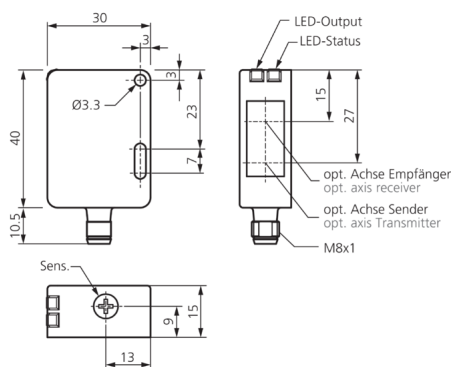


209571

LH 41 M 350 G4L-T4

Laser diffuse sensor with background suppression

- Vibration-safe 10-turn adjustment for finest adjustment
- Red-light laser, with small laser spot
- Optical background suppression
- Push-pull pnp + npn
- High resolution, switching accuracy, switching frequency
- Functional reserve indicator
- Robust metal housing
- Universal mounting



BK: black

BN: brown

BU: blue

WH: white

Function



Technical data (typ.)

+20°C, 24 V DC

Electrical features

Service voltage	10 ... 30 V DC
No-load current (max.)	25 mA
Insulation voltage endurance	500 V

Mechanical features

Housing dimensions	40 x 30 x 15 mm
Housing length	30 mm
Housing height	40 mm
Housing width	15 mm
Housing material	Die-cast zinc (Black, painted)
Material	Polycarbonate (Window)
Weight	48 g

Certifications, approvals

Protection class	III
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General features

Operating principle	Diffuse sensor with background suppression
Evaluation	digital
Design	Cuboid design

Output, input, interface

Switching output	Push-pull, 100 mA, antivalent, NO/NC
Voltage drop (max.)	2 V


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+20°C, 24 V DC
Optical data

Light source	Laser
Laser class	CLASS 1 LASER PRODUCT, (IEC 60825-1:2014 / EN 60825-1:2014)
Color	Red
Wavelength	650 nm (Pp < 1.6 mW t = 11.4 µs)
Modulation	Clocked
Background suppression	Yes
Light spot size	Ø 2 mm
Ambient light immunity	20 kLx

Detection range, measuring range, tolerance limits

Switching distance	350 to 600 mm as diffuse sensor
Range	30 ... 350 mm

Display, operation

Sensitivity adjustment	Potentiometer (10-turn)
Display	LED green - Operation, yellow - Switching output green - Low functional reserve (flashing)

Time behavior

Switching frequency	1000 Hz
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Ambient conditions

Shock/vibration load	30 g, 10 ... 55 Hz / 0.5 mm
Ambient temperature during operation	-10 ... +50 °C
Protection type	IP 67

Electrical connection

Connection	Connector, M8, 4-pin
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Accessories

Connection cable	TK ... /4
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More information / accessories
<https://www.di-soric.com/209571>