



# LXRC-1XXXKXXABMAAB

LXRC

LEVEL SENSORS

**SICK**  
Sensor Intelligence.



Illustration may differ



### Ordering information

Type	Part no.
LXRC-1XXXKXXABMAAB	6085706

Other models and accessories → [www.sick.com/LXRC](http://www.sick.com/LXRC)

### Detailed technical data

#### Features

<b>Medium</b>	Fluids, bulk solids
<b>Measurement</b>	Continuous, switch
<b>Probe type</b>	Thread with integrated horn antenna made from PTFE
<b>Frequency band</b>	W-band (within 75 ... 85 GHz)
<b>Measuring range</b>	0 m ... 15 m
<b>Angle of dispersion</b>	12° <sup>1)</sup>
<b>Process pressure</b>	-1 bar ... 16 bar
<b>Process temperature</b>	-40 °C ... +130 °C
<b>RoHS certificate</b>	✓
<b>IO-Link</b>	✓
<b>cULus certificate</b>	✓
<b>Bluetooth</b>	✓
<b>360° status indicator</b>	✓

<sup>1)</sup> Outside the specified aperture angle, the level of the radar signal energy is lowered by 50% (-3 dB).

#### Performance

<b>Accuracy of sensor element</b>	± 2 mm <sup>1) 2)</sup>
<b>Reproducibility</b>	≤ 1 mm
<b>Resolution</b>	< 1 mm
<b>Response time</b>	< 1 s

<sup>1)</sup> At reference conditions.

<sup>2)</sup> If subjected to EMC interference, the measurement error can be larger.

Electronics

<b>Communication interface</b>	IO-Link
<b>Supply voltage</b>	12 V DC ... 35 V DC <sup>1)</sup>
<b>Initialization time</b>	≤ 5 s
<b>Protection class</b>	III
<b>Connection type</b>	M12 round connector x 1, 4-pin
<b>Output signal</b>	2 x PNP/NPN/PNP/NPN + 4 mA ... 20 mA
<b>Power consumption</b>	≤ 3.5 W
<b>Inductive load</b>	≤ 0.5 H
<b>Capacitive load</b>	≤ 100 nF
<b>Enclosure rating</b>	IP66, IP67, IP69
<b>Lower signal level</b>	3.8 mA ... 4 mA
<b>Upper signal level</b>	20 mA ... 20.5 mA

<sup>1)</sup> All connections are polarity protected. All outputs are overload and short-circuit protected.

Mechanics

<b>Wetted parts</b>	Stainless steel 1.4435 / 316L1.4404, PTFEFKM
<b>Process connection</b>	1" NPT, PN16, ASME B1.20.1
<b>Housing material</b>	Stainless steel 316L, PBT/PC
<b>Male connector material</b>	Plastic

Ambient data

<b>Ambient operating temperature</b>	-40 °C ... +70 °C
<b>Ambient temperature, storage</b>	-40 °C ... +80 °C

Classifications

<b>ECLASS 5.0</b>	27200505
<b>ECLASS 5.1.4</b>	27200505
<b>ECLASS 6.0</b>	27200505
<b>ECLASS 6.2</b>	27200505
<b>ECLASS 7.0</b>	27200505
<b>ECLASS 8.0</b>	27200505
<b>ECLASS 8.1</b>	27200505
<b>ECLASS 9.0</b>	27200505
<b>ECLASS 10.0</b>	27270807
<b>ECLASS 11.0</b>	27270807
<b>ECLASS 12.0</b>	27274501
<b>ETIM 5.0</b>	EC001447
<b>ETIM 6.0</b>	EC001447
<b>ETIM 7.0</b>	EC001447
<b>ETIM 8.0</b>	EC001447
<b>UNSPSC 16.0901</b>	41111950

### Type code

#### Electrical safety

XX CE, RCM, UKCA, normal location (c-UL-us)

#### Food/pharmaceutical certificate

X without food/pharmaceutical certificate

#### Process connection

- F Thread G 3/4 PN16, DIN3852-A / 316/316L
- G Thread 3/4" NPT PN16, ASME B1.20.1 / 316/316L
- J Thread G 1 PN16, DIN3852-A / 316/316L
- K Thread 1" NPT PN16, ASME B1.20.1 / 316/316L

#### Additional hygiene adapters

XX without additional hygiene adapters

#### Material/seal/process temperature

- AA Material PEEK, seal FKM, process temperature -40... +130 °C
- QB Material PTFE, seal FKM, process temperature -40... +130 °C

#### Electrical connection/ enclosure rating

- M M12x1 plastic / IP66/IP67/IP69
- E M12x1 stainless steel / IP66/IP67/IP69

#### Display and control module/360° status indicator

- X without display / without status indicator
- A without display / with status indicator

#### Electronics

- A Three-wire with IO-Link (2x transistor or 4... 20mA plus 1x transistor)

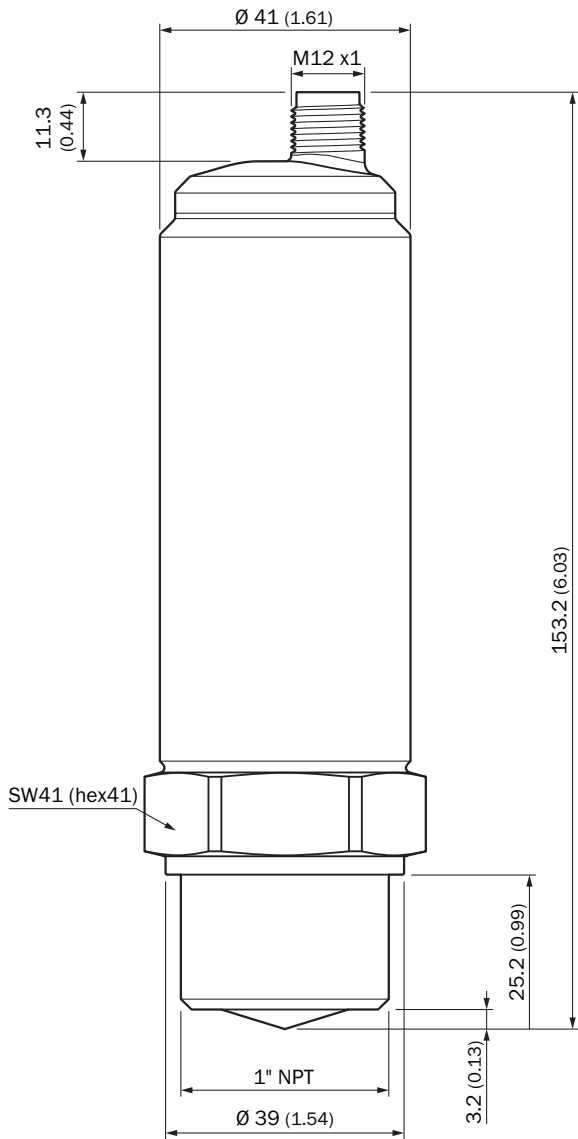
#### WPAN

- X without WPAN
- B with WPAN

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Not all variants of the type code can be combined!

Dimensional drawing (Dimensions in mm (inch))



## 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](http://www.sick.com)