



STL-2312-G02MAA3

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
STL-2312-G02MAA3	2061504

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

## Detailed technical data

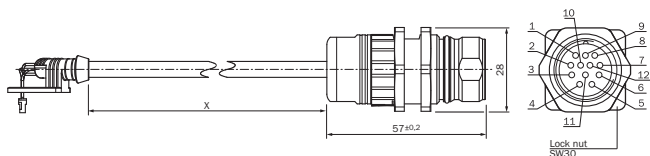
### Technical specifications

<b>Accessory group</b>	Plug connectors and cables
<b>Accessory family</b>	Connection cables
<b>Connection type head A</b>	Female connector, JST, 8-pin, straight
<b>Connection type head B</b>	Male connector, M23, 12-pin, straight
<b>Cable</b>	2 m, 8-wire, PUR, halogen-free
<b>Jacket material</b>	PUR, halogen-free
<b>Cable diameter</b>	Ø 5.6 mm
<b>Conductor cross-section</b>	4 x 2 x 0.15 mm <sup>2</sup>
<b>Shielding</b>	Shielded
<b>Signal type</b>	Incremental
<b>Description</b>	Head A: female connector, JST, 8-pin, straight Head B: male connector, M23, 12-pin, straight Cable: suitable for drag chain, PUR, halogen-free, shielded, 4 x 2 x 0.15 mm <sup>2</sup> , Ø 5.6 mm

### Classifications

<b>ECl@ss 5.0</b>	19030312
<b>ECl@ss 5.1.4</b>	19030312
<b>ECl@ss 6.0</b>	27060304
<b>ECl@ss 6.2</b>	27060304
<b>ECl@ss 7.0</b>	27060304
<b>ECl@ss 8.0</b>	27060304
<b>ECl@ss 8.1</b>	27060304
<b>ECl@ss 9.0</b>	27060304
<b>ETIM 5.0</b>	EC000830
<b>ETIM 6.0</b>	EC000830
<b>UNSPSC 16.0901</b>	26121604

### Dimensional drawing (Dimensions in mm (inch))



## PIN assignment

PIN	Signal TTL_HTL	Signal sine 1.0 V <sub>SS</sub>	Color of wires
1	B	SIN-	Black
2	Not connected	Not connected	
3	Z	Z	Lilac
4	Z̄	Z̄	Yellow
5	A	COS+	White
6	Ā	COS-	Brown
7	Not connected	Not connected	
8	B	SIN+	Pink
9	Not connected	Not connected	
10	GND	GND	Blue
11	Not connected	Not connected	
12	U <sub>1</sub>	U <sub>2</sub>	Red
Shield	Shield <sup>1)</sup>	Shield <sup>1)</sup>	

**Attention!**

The flexible wires twisted in pairs must be assigned in accordance with the signals.

White/Brown = A/Ā oder COS+/COS-  
 Lilac/Yellow = Z/Z̄  
 Pink/Black = B/B̄ oder SIN+/SIN-  
 Red/Blue = preferably U<sub>1</sub> and GND

<sup>1)</sup> Shield connected to housing on side of encoder, connected to ground on side of control.

**Attention!** In combination with the electrical interfaces A, C, E and P only.

## 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)