



YG2A13-020UA1M8U13

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
YG2A13-020UA1M8U13	2099607

Other models and accessories → www.sick.com/



Detailed technical data

Technical specifications

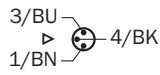
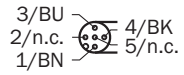
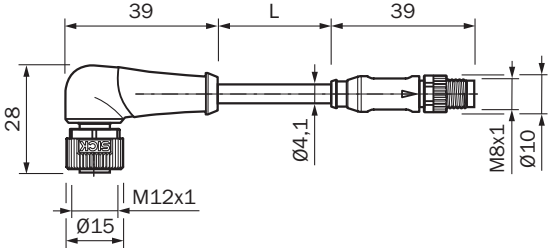
Accessory group	Plug connectors and cables						
Accessory family	Connection cables						
Connection type head A	Female connector, M12, 3-pin, angled, A-coded						
Connection type head B	Male connector, M8, 3-pin, straight, A-coded						
Locking plug connector	Screw connection						
Connector material	TPU						
Connector color	Black						
Locking nut material	Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)						
Seal material	FKM						
Tightening torque	0.4 Nm (M8), 0.6 Nm (M12)						
Width across flats	9 (M8), 13 (M12)						
Cable	2 m, 3-wire, PUR, halogen-free						
Jacket material	PUR, halogen-free						
Jacket color	Black						
Cable diameter	4.1 mm						
Conductor cross-section	0.25 mm ²						
Shielding	Unshielded						
Bending radius	<table border="0"> <tr> <td>Flexible use</td> <td>> 10 x cable diameter</td> </tr> <tr> <td>Stationary position</td> <td>> 5 x cable diameter</td> </tr> <tr> <td>Drag chain operation</td> <td>> 10 x cable diameter</td> </tr> </table>	Flexible use	> 10 x cable diameter	Stationary position	> 5 x cable diameter	Drag chain operation	> 10 x cable diameter
Flexible use	> 10 x cable diameter						
Stationary position	> 5 x cable diameter						
Drag chain operation	> 10 x cable diameter						
Bending cycles	10,000,000						
Nominal voltage, cable	300 V AC						
Test voltage, cable	2,500 V AC						
Reference voltage	<table border="0"> <tr> <td>50 V AC</td> </tr> <tr> <td>60 V DC</td> </tr> </table>	50 V AC	60 V DC				
50 V AC							
60 V DC							
Rated impulse voltage	1.5 kV						
Current loading	4 A						
Traversing speed	3 m/s						

Travelling distance	10 m
Acceleration	≤ 10 m/s ²
Signal type	Sensor/actuator cable
Torsion force	180° / 1 m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Zones with oils and lubricants Drag chain operation Robot
Authorizations	CE UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Ambient operating temperature	
Flexible use	-25 °C ... +80 °C
Stationary position	-40 °C ... +80 °C
Drag chain operation	-25 °C ... +80 °C
Head	-25 °C ... +85 °C
Contamination rating	3
Insulation resistance	100 MΩ
Overvoltage category	III
Specific insulation resistance	30 mΩ
Thermal resistance, piping	Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2

Classifications

ECl@ss 5.0	19030312
ECl@ss 5.1.4	19030312
ECl@ss 6.0	27060304
ECl@ss 6.2	27060304
ECl@ss 7.0	27060304
ECl@ss 8.0	27060304
ECl@ss 8.1	27060304
ECl@ss 9.0	27060304
ECl@ss 10.0	27060304
ECl@ss 11.0	27060304
ECl@ss 12.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
ETIM 8.0	EC003249
UNSPSC 16.0901	26121604

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