



YF2A1B-100UD1XLEAX

Sensor-actuator cables

CONNECTORS AND CABLES

SICK
Sensor Intelligence.



Ordering information

Type	part no.
YF2A1B-100UD1XLEAX	2119045

Other models and accessories → www.sick.com/Sensor-actuator_cables



Detailed technical data

Technical specifications

Connection type head A	Female connector, M12, 12-pin, straight, A-coded	
Connection type head B	Flying leads	
Locking plug connector	Screw connection	
Connector material	TPU	
Connector color	Black	
Locking nut material	Zinc die-cast, nickel-plated	
Seal material	FKM	
Tightening torque	0.6 Nm	
Width across flats	13	
Cable	10 m, 12-wire, PUR, halogen-free	
Jacket material	PUR, halogen-free	
Jacket color	Black	
Cable diameter	6 mm	
Conductor cross section	0.14 mm ²	
Shielding	Unshielded	
Bending radius	Flexible use	> 15 x cable diameter
		> 7.5 x cable diameter
		> 10 x cable diameter
Bending cycles	≤ 2,000,000	
Reference voltage	≤ 30 V DC	
Rated impulse voltage	0.8 kV	
Current loading	1.5 A	
Traversing speed	3.3 m/s	
Travelling distance	5 m	
Acceleration	≤ 5 m/s ²	
Signal type	Sensor/actuator cable	

Torsion force	180°
Application	Drag chain operation Zones with oils and lubricants Robot
Enclosure rating	IP65 / IP66 / IP67
Operating temperature	
Flexible use	-25 °C ... +85 °C
Stationary position	-40 °C ... +85 °C
Drag chain operation	-25 °C ... +85 °C
Head	-25 °C ... +85 °C
Contamination rating	3
Insulation resistance	100 MΩ
Overshoot category	III
Specific insulation resistance	30 mΩ

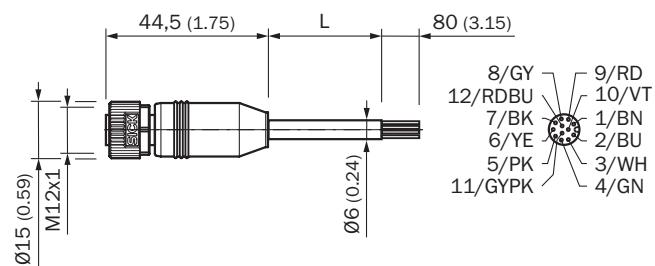
Certificates

EU declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

Classifications

ECLASS 5.0	19030312
ECLASS 5.1.4	19030312
ECLASS 6.0	27060304
ECLASS 6.2	27060304
ECLASS 7.0	27060304
ECLASS 8.0	27060304
ECLASS 8.1	27060304
ECLASS 9.0	27060304
ECLASS 10.0	27060304
ECLASS 11.0	27060304
ECLASS 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