

# YG8U14-020UA3XLEAX

Sensor/actuator cable



# YG8U14-020UA3XLEAX | Sensor/actuator cable



### Ordering information

Туре	Part no.
YG8U14-020UA3XLEAX	2095589

Other models and accessories → www.sick.com/Sensor\_actuator\_cable



#### Detailed technical data

#### Technical specifications

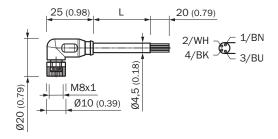
Connection type head B         Female connector, M8, 4-pin, angled, A-coded           Connection type head B         Flying leads           Locking plug connector         Screw connection           Connector material         TPU           Connector color         Black           Connection at material         FKM           Tightening torque         0.4 Nm           Width across flats         9           Cable         2 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.5 mm           Conductor cross section         0.25 mm²           Shielding         Unskielded           Bending radius         Flexible use Stationary position Drag chain operation         > 10 x cable diameter           > 5 x cable diameter         > 5 x cable diameter           > 10 x cable diameter         > 10 x cable diameter           Stationary position Drag chain operation         300 x cable diameter           Stationary position         5 x x cable diameter           Stationary posi		
Locking plug connector     Screw connection       Connector material     TPU       Connector color     Black       Locking nut material     Zinc die-cast, nickel-plated       Seal material     FKM       Tightening torque     0.4 Nm       Width across flats     9       Cable     2 m, 4-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     4.5 mm       Conductor cross section     0.25 mm²       Shielding     Unshielded       Bending radius     > 10 x cable diameter       Stationary position Drag chain operation Prag chain operation Prag chain operation 20 x cable diameter     > 10 x cable diameter       Bending cycles     1,0,000,000       Nominal voltage, cable     300 V AC       Test voltage, cable     2,500 V AC       Reference voltage     50 V AC       60 V DC       Rated impulse voltage     1,5 kV       Current loading     4 A	Connection type head A	Female connector, M8, 4-pin, angled, A-coded
Connector color     Black       Locking nut material     Zinc die-cast, nickel-plated       Seal material     FKM       Undith across flats     9       Cable     2 m, 4-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     4.5 mm       Conductor cross section     0.25 mm²       Shielding     Unshielded       Bending radius     Flexible use Stationary position Parag chain operation Parag chain operation     > 10 x cable diameter       Pending cycles     10,000,000       Nominal voltage, cable     300 V AC       Test voltage, cable     2,500 V AC       Reference voltage     50 V AC       60 V DC       Rated impulse voltage     1.5 kV       Current loading     4 A	Connection type head B	Flying leads
Connector color     Black       Locking nut material     Zinc die-cast, nickel-plated       Seal material     FKM       Tightening torque     0.4 Nm       Width across flats     9       Cable     2 m, 4-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     4.5 mm       Conductor cross section     0.25 mm²       Shielding     Unshielded       Bending radius     Flexible use Stationary position Drag chain operation     > 10 x cable diameter       > 5 x cable diameter     > 5 x cable diameter       Bending cycles     10,000,000       Nominal voltage, cable     300 V AC       Test voltage, cable     2,500 V AC       Reference voltage     50 V AC       60 V DC       Rated impulse voltage     1.5 kV       Current loading     4 A	Locking plug connector	Screw connection
Locking nut material     Zinc die-cast, nickel-plated       Seal material     FKM       Tightening torque     0.4 Nm       Width across flats     9       Cable     2 m, 4-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     4.5 mm       Conductor cross section     0.25 mm²       Shielding     Unshielded       Bending radius     > 10 x cable diameter       Flexible use Stationary position Drag chain operation     > 10 x cable diameter       > 5 x cable diameter     > 10 x cable diameter       > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diamete	Connector material	TPU
FKM Tightening torque 0.4 Nm Width across flats 9 Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Press voltage, cable Reference voltage  Rated impulse voltage Current loading  FKM 0.4 Nm 0.4 Nm 0.4 Nm 0.4 Nm 0.5 Nm 0.25 mm	Connector color	Black
Tightening torque	Locking nut material	Zinc die-cast, nickel-plated
Width across flats         9           Cable         2 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.5 mm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position Drag chain operation         > 10 x cable diameter           > 5 x cable diameter         > 10 x cable diameter           > 10 x cable diameter         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           So v acle diameter         > 10 x cable diameter           So v Acle         50 V ACle           Go v DC         60 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A	Seal material	FKM
Cable     2 m, 4-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     4.5 mm       Conductor cross section     0.25 mm²       Shielding     Unshielded       Bending radius     > 10 x cable diameter       Stationary position Drag chain operation     > 5 x cable diameter       > 10 x cable diameter     > 10 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x cable diameter       Stationary position Drag chain operation     2 x x cable diameter       Stationary position Drag chain operation     2 x x x cable diameter       Stationary position Drag chain operation     2 x x x x x x x x x x x x x x x x x x x	Tightening torque	0.4 Nm
Jacket material PUR, halogen-free Black Cable diameter 4.5 mm Conductor cross section O.25 mm² Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Position and voltage, cable Test voltage, cable Reference voltage Flexible use 30 V AC Ference voltage 50 V AC Fasted impulse voltage Current loading A.5 mm	Width across flats	9
Jacket color Cable diameter 4.5 mm Conductor cross section 0.25 mm² Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Test voltage, cable Reference voltage 50 V AC 60 V DC Rated impulse voltage Current loading 4 A	Cable	2 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section  Shielding Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation Pest voltage, cable  Test voltage, cable  Reference voltage  50 V AC 60 V DC  Rated impulse voltage  Current loading  4.5 mm  0.25 mm² Unshielded  > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter	Jacket material	PUR, halogen-free
Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Nominal voltage, cable  Test voltage, cable  Reference voltage  Flexible use > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter < 10 x cable di	Jacket color	Black
Shielding Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Sending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  50 V AC 60 V DC  Rated impulse voltage  Current loading  Unshielded  > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter	Cable diameter	4.5 mm
Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  10,000,000  Nominal voltage, cable  Test voltage, cable  2,500 V AC  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  7 10 x cable diameter  2 10,000,000  2 10,000,000  2 10,000,000  3 10,000,000  3 10,000,000  3 10,000,000  3 10,000,000  4 A	Conductor cross section	0.25 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation  Drag chain operation  Drag chain operation  Sending cycles  10,000,000  Nominal voltage, cable  Test voltage, cable  2,500 V AC  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading	Shielding	Unshielded
Stationary position Drag chain operation Drag chain	Bending radius	
Drag chain operation > 10 x cable diameter  10,000,000  Nominal voltage, cable 300 V AC  Test voltage, cable 2,500 V AC  Reference voltage 50 V AC  Rated impulse voltage 1.5 kV  Current loading 4 A	Flexible use	> 10 x cable diameter
Dending cycles		
Nominal voltage, cable  Test voltage, cable  2,500 V AC  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  300 V AC  4 A		
Test voltage, cable  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A		10,000,000
Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A	Nominal voltage, cable	300 V AC
50 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A	Test voltage, cable	2,500 V AC
Rated impulse voltage 1.5 kV Current loading 4 A	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A		
Current loading 4 A		
Traversing speed 3 m/s		
	Traversing speed	3 m/s

Travelling distance	10 m	
Acceleration	≤ 10 m/s²	
Signal type	Sensor/actuator cable	
Torsion force	180° / 1 m	
Torsion cycles	2,000,000	
Cycles per minutes	35	
Application	Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation	
Authorizations	UL	
UL File No.	E335179	
Enclosure rating	IP65 / IP66K / IP67	
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 ΜΩ	
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

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))



#### Recommended accessories

Other models and accessories → www.sick.com/Sensor\_actuator\_cable

	Brief description	Туре	Part no.			
Other mounting accessories						
	1 piece, M8 mounting key set for SW9 with calibrated torque 0.4 Nm	TOOL-TWO4M08AF09	5337207			
Others						
	<ul> <li>Connection type head A: Male connector, M8, 4-pin, straight, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	STE-0804-G	6037323			
	<ul> <li>Connection type head A: Female connector, M8, 4-pin, straight, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	DOS-0804-G	6009974			

## 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:**

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