

# YG8U13-100UA1XLEAX



## YG8U13-100UA1XLEAX



## Ordering information

Туре	Part no.
YG8U13-100UA1XLEAX	2095588

Other models and accessories -> www.sick.com/



#### Detailed technical data

## Technical specifications

Accessory group     Pilogeometers and cables       Accessory family     Connectior cables       Connection type head A     Fenale connector, M8, 3-pin, angled, A-coded       Connection type head A     Biylig leads       Locking plug connector     Screw connection       Connector material     TPU       Connector color     Biack       Connector color     Biack       Cableg nut material     Cine decast, nickel-plated       Scal material     KM       Yight across flats     9       Cable     Ong. Avine, PUR, halogen free       Cable diameter     Longen-free       Conductor cross-section     Q.Back       Conductor cross-section     O.S ram <sup>2</sup> Stationary position     Social cial meter       Stationary position     Sociable diameter <td< th=""><th>•</th><th></th><th></th></td<>	•		
Connection type head AFemale connector, M8, 3-pin, angled, A-codedConnection type head BFiling leadsLocking plug connectorScrew connectionConnector materialTPUConnector colorBlackLocking nut materialCin cli ccast, nickel-platedLocking nut materialFiling it counce colorSeal materialFiling it counce colorYielth across flats9Cable10 m, 3-wire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorBlackConductor coss-sectionOz Sm <sup>2</sup> Shelding- SineiledBending radius- SineiledFilixibue us> 10 x cable diameterStationary postion> 10 x cable diameterStationary postion> 10 x cable diameterStationary postion> 10 x cable diameterFilixibue us> 10 x cable diameterStationary postion> 10 x cable diameterTorachain postion> 10 x cable diameterStationary postion> 10 x cable diameterTorachain postion> 10 x cable diameterStationary postion> 10 x cable diameterTorachain postion> 10 x cable diameterStationary postion> 10 x cab	Accessory group		Plug connectors and cables
Connection type head BFinal eadsLocking plug connectorSeree connectionConnector colorBlackLocking nut materialSind is cast, nickel-platedLocking nut materialFKMTightening torque0.4 NmVidth across flats9CableIn g. wire, PUR, halogen-freeLacket colorBlackLacket colorBlackLacket colorBlackCable1.1 m.Conduct cross-section0.2 S m.?Shelding1.0 scable diameterForge head sectionSi scable diameterStationary pointsSi scable diameterForge head section1.0 scable diameterStationary points1.0 scable diameterForge head sectionSi scable diameterForge head sectionSi scable diameterStationary pointsSi scable diameterForge head section1.0 scable diameterForge head sectionSi scable	Accessory family		Connecting cables
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Conector materialFUConnector colorBiackLocking nut materialCin die-cast, nickel-platedSeal materialKMTightening torque0.4 NmVidth across flats9Cable10 m, 3-wire, PUR, halogen-freeJacket toolorBiackCable diameterialPUR, halogen-freeJacket color2.05 mm²Cable diameter0.25 mm²Conductor cross-section0.25 mm²SheldingVin Cable diameterFlexible wa>10x cable diameterStationary position>10x cable diameterStationary position>10x cable diameterShelding cycles10x cable diameterStationary position>10x cable diameter<	Connection type head B	:	Flying leads
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Locking nut materialIn diecast, nickel-platedSeal materialFKMTightening torque0.4 NmWith across flats9CableOm 3-wire, PUR, halogen-freeJacket toolorBlackCable diameterial0.2 Sm. <sup>2</sup> Cable diameterial0.2 Sm. <sup>2</sup> Schelding0.2 Sm. <sup>2</sup> Schelding radius> Stacke diameterialFlexible> Stacke diameterialStationary power> Stacke diameterialStationary power> Stacke diameterialFlexible> Stacke diameterialStationary power> Stacke diameterialFlexible> Stacke diameterialStationary power> Stacke diameterialStationary	Connector material		TPU
Seal materialFKMTightening torque0.4 NmWith across flats9Cable10 m, 3-wire, PUR, halogen-freeJacket materialDUR, halogen-freeJacket colorBlackCable diameter0.25 mm²Cablediameter0.25 mm²SheldingNushieldedShelding radius5 vacibe diameterStationary position10 vacibe diameter </th <th>Connector color</th> <th></th> <th>Black</th>	Connector color		Black
Tightening torque0.4 NmWith across flats9Cable10m, 3-wire, PUR, halogen-freeCable0.9M, halogen-freeJacket naterialUR, halogen-freeJacket colorBackCable diameter0.25 mm²Conductor cross-section0.25 mm²SheldingUnsheldedShelding radius-Flexibles>10 xcable diameterStationary point>10 xcable diameterDrag chain opper-Rending soutiage0.000,000Rending soutiage1.0 xcable diameterRending soutiage0.000,000Rending soutiage1.0 xcable diameterCurrent loading1.0 xcable diameterTaversing speed1.0 xcable diameterTaversing speed3.0 xcable diamet	Locking nut material		Zinc die-cast, nickel-plated
Width across flats9Cable10 m, 3-wire, PUR, halogen-freeJacket material10 m, 3-wire, PUR, halogen-freeJacket colorBlackCable diameter4.1 mmConductor crosssection0.25 mm²SheldingUnsheldedBending radius>10 x cable diameterStationary position>10 x cable diameterDrag chain operation>10 x cable diameterStationary position>10 x cable diameterBending rycles60 vDCReference voltage5.5 kVCurrent loading1.5 kVTaversing speed3.m/sTaversing distance10 m	Seal material		FKM
Cable0m, 3wire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorBlackJacket colorBlackCable diameter4.1 mmConductor cross-section0.25 mm²SheldingJoshelddaBending radius-Flexible w> 10 x cable diameterStationary position> 10 x cable diameterDarg chain operation> 10 x cable diameterBending reges- 000,000Reference voltage6 00 VDCRated impulse voltage1.5 kVCurrent loading4.4Taversing speed3 mysTaveling distance10 m	Tightening torque		0.4 Nm
Jacket materialPUR, halogen-freeJacket colorBickJacket colorAinmConductor cross-section0.5 sm?ShieldingbiskiededBending radius> 10 scabel diameterStationary position> 10 scabel diameterStationary position> 10 scabel diameterBending scyles0.900,000Reference voltage0.900,000Rated impulse voltage0.900,000Rated	Width across flats		9
Jacket colorBlackGable diameter4.1 mmConductor cross-section0.25 mm²ShieldingUnshieldedBending radius> 10 x cable diameterStationary positin> 5 x cable diameterDrag chain operation> 10 x cable diameterDrag chain operation> 10 x cable diameterBending rycles0.000,000Reference voltage60 V DCRated impulse voltage4.4Current loading4.9Taversing speed0.m/sTaveling distance10 m	Cable		10 m, 3-wire, PUR, halogen-free
Cable diameter4.1 mmConductor cross-section0.25 mm²ShieldingUnshieldedShielding radius9.1 scaleFlexible va Stationary point9.1 scale diameterStationary point9.1 scale diameterDarg chain part9.1 scale diameterBending cycles0.00,000Reference voltage0.00,000Rated impulse voltage0.5 kVCurrent loading1.5 kVTavesing speed0.1 scaleTavesing speed0.1	Jacket material		PUR, halogen-free
Conductor cross-section0.25 mm²ShieldingUnshieldedBending radius> 10 x cable diameterStationary position> 5 x cable diameterDrag chain operation10 x cable diameterDrag chain operation> 10 x cable diameterBending cycles0.000.000Reference voltage6 0 V DCRated impulse voltage1.5 kVCurrent loading4.4Traversing speed3 m/sIn model3 m/s	Jacket color		Black
ShieldingUnshieldedBending radiusInshieldedFlexible us> 10 x cable diameterStationary position> 10 x cable diameterDrag chain operation> 10 x cable diameterBending cycles0,000,000Reference voltage< 60 V DC	Cable diameter		4.1 mm
Bending radius   > 10 x cable diameter     Flexible us   > 10 x cable diameter     Stationary position   > 10 x cable diameter     Drag chain operation   > 10 x cable diameter     Bending cycles   10,000,000     Reference voltage   5 k0 VDC     Rated impulse voltage   1.5 kV     Current loading   3 m/s     Traversing speed   10 m	Conductor cross-section	ı	0.25 mm <sup>2</sup>
Flexible us> 10 x cable diameterStationary position> 5 x cable diameterDrag chain operation> 10 x cable diameterBending cycles0,000,000Reference voltage< 60 V DCRated impulse voltage1.5 kVCurrent loading4 ATraversing speed3 m/sInselling distance10 m	Shielding		Unshielded
Stationary position   > 5 x cable diameter     Drag chain operation   > 10 x cable diameter     Bending cycles   10,000,000     Reference voltage   < 60 V DC     Rated impulse voltage   1.5 kV     Current loading   4 A     Traversing speed   3 m/s     In meter   10 m	Bending radius		
Drag chain operation> 10 x cable diameterBending cycles10,000,000Reference voltage< 60 V DC		Flexible use	> 10 x cable diameter
Bending cycles10,000,000Reference voltage< 60 V DC		Stationary position	> 5 x cable diameter
Reference voltage ≤ 60 V DC   Rated impulse voltage 1.5 kV   Current loading 4 A   Traversing speed 3 m/s   Travelling distance 10 m		Drag chain operation	> 10 x cable diameter
Rated impulse voltage 1.5 kV   Current loading 4 A   Traversing speed 3 m/s   Travelling distance 10 m	Bending cycles		10,000,000
Current loading4 ATraversing speed3 m/sTravelling distance10 m	Reference voltage		≤ 60 V DC
Traversing speed 3 m/s   Travelling distance 10 m	Rated impulse voltage		1.5 kV
Travelling distance 10 m	Current loading		4 A
	Traversing speed		3 m/s
Acceleration ≤ 10 m/s <sup>2</sup>	Travelling distance		10 m
	Acceleration		≤ 10 m/s²

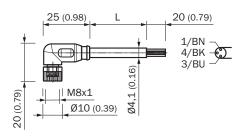
Signal type	Sensor/actuator cable	
Torsion force	180°/1m	
Torsion cycles	2,000,000	
Cycles per minutes	35	
Application	Zones with oils and lubricants Drag chain operation	
Authorizations	UL	
UL File No.	E335179	
Enclosure rating	IP65 / IP66K / IP67	
Ambient operating temperature		
Flexible use	-25 °C +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 ΜΩ	
Overvoltage category	III	
Specific insulation resistance	30 mΩ	
Thermal resistance, cable	Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2	

## Classifications

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

## YG8U13-100UA1XLEAX

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



## **Recommended accessories**

Other models and accessories -> www.sick.com/

	Brief description	Туре	Part no.			
Other mounting accessories						
	1 piece, M8 mounting key set for SW9 with calibrated torque 0.4 Nm	TOOL-TW04M08AF09	5337207			
Plug connectors and cables						
	Head A: female connector, M8, 3-pin, straight Head B: - Cable: unshielded	DOS-0803-G	7902077			
	Head A: male connector, M8, 3-pin, straight Head B: - Cable: unshielded	STE-0803-G	6037322			

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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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