

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 ² 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 ² 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 |
| Locking under of an experimental and the set of a | Connection type head A | • | Female connector, M8, 3-pin, angled, A-coded |
| 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 |
| Conector colorBackLocking nut materialInc diceast, nickel-platedSeal materialKMTightening torque0.4 NmWith across flats9CableOm 3-wire, PUR, halogen-freeJacket toolor0.9 Nm 3-wire, PUR, halogen-freeJacket toolorBackCable diameteral0.9 Nm 3-wire, PUR, halogen-freeCable diameteral0.9 Nm 3-wire, PUR, halogen-freeStationary Down0.9 Sc able diameteralStationary Down> St cable diameteralDarg chain operation> 10 xocable diameteralStationary Down> St cable diameteralPresenter0.000,000Reading sceller60 VDCRead inputser voltage60 VDCRead inputser voltage1.5 kVCurrent loading3 m/sTaversing speed3 mmTowaling distance3 mmStationary Down3 mmStationary Down | Locking plug connector | | Screw connection |
| Locking nut materialIn diecast, nickel-platedSeal materialFKMTightening torque0.4 NmWith across flats9CableOm 3-wire, PUR, halogen-freeJacket toolorBlackCable diameterial0.2 Sm. ² Cable diameterial0.2 Sm. ² Schelding0.2 Sm. ² 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 ² |
| 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 ² | Travelling distance | | 10 m |
| | Acceleration | | ≤ 10 m/s² |

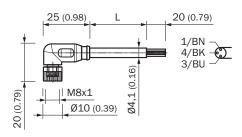
| Signal type | Sensor/actuator cable | |
|--------------------------------|--|--|
| Torsion force | 180°/1m | |
| Torsion cycles | 2,000,000 | |
| Cycles per minutes | 35 | |
| Application | Zones with oils and lubricants Drag chain operation | |
| Authorizations | UL | |
| UL File No. | E335179 | |
| 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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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."

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