

# YM2A28-100UA6XLEAX

Sensor/actuator cable



### YM2A28-100UA6XLEAX | Sensor/actuator cable



#### Ordering information

Туре	Part no.
YM2A28-100UA6XLEAX	2134056

For 8-pin sensor-actuator cables, the wire colors are not standardized. Therefore, please observe the pin assignment of the sensor and the cable in the respective data sheet.

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

#### Detailed technical data

Technical specifications

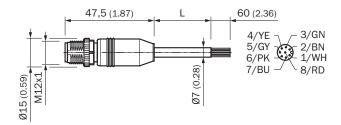
Connection type head AMela connection L2, A pin, straight, AcodedConnection type head BFinal connectionConnection type head BFinal connection<		
Leding plug connectorServe on encionConnector and raiFUConnector corBickConnector corSincica connector connect	Connection type head A	Male connector, M12, 8-pin, straight, A-coded
Connector materialFUConnector materialFUConnector materialBickConnector materialCole cast nickel-platedSea materialKMTigtening torque0.8 NmVidth across flats3Cohector materialNm Sender ManagementJacket material0.8 Nm Sender ManagementJacket notorBick Sender ManagementConductor consection0.8 Nm Sender ManagementShieldingNm Sender ManagementStationary position> Sacabe diameterTorge hain opper> Sacabe diameter	Connection type head B	Flying leads
Connect ordBickConnect ordBickLocking nut materialFixMSal materialFixMTigtening torque0.0 NmWith across flats0.10 NmCable10 Nm Nur PUR, halogen-freeJacket materialDie NachalensteinJacket color0.25 mm²Jacket color0.25 mm²Conductor cross section0.25 mm²Shielding> 10 x colobe diameterStationary post> 5 x colobe diameterStationary post> 5 x colobe diameterStationary post> 10 x colobeStationary post> 10 x colobeStationary post> 10 x colobeStationary post> 10 x colobeStationary post> 10 x colobe <td< th=""><th>Locking plug connector</th><th>Screw connection</th></td<>	Locking plug connector	Screw connection
Locking nut materialCincle-cast, nickel-plated.Locking nut materialFikMSeal material6.0 kmWith across fisto0.3 kmJacket material0.0 km/sing PUR, halogen-freeJacket materialBickJacket colorBickJacket color0.2 km <sup>2</sup> -0Jacket color0.2 km <sup>2</sup> -0Coduct cross section0.2 km <sup>2</sup> -0Stationary position> 10 x cole diameterFlexible> 10 x cole diameterStationary position> 10 x cole diameterTerrent Conduct cross section> 10 x cole diameterStationary position> 10 x cole	Connector material	TPU
Sel materialKMTigtening torque0.8 kmWith across flats3.3Cable0.9 km km km kmJaket naterial0.8 kmJaket color0.8 kmCable diameter0.8 kmCable diameter0.8 kmCable diameter0.8 kmShelding0.8 kmShelding regulation0.8 kmStationaryone0.8 kmSta	Connector color	Black
Tighting torque0.6 NmWidth across flats3Cable10m, 8wire, PUR, halogen-freeJacket color90R, halogen-freeJacket color8kaKCable diameter7 mmConductor cross section0.25 mm²SheldingNieledelBending radius> 10x cable diameterStationary poiso> 5x cable diameterStationary poiso> 10x cable diameter <tr< th=""><th>Locking nut material</th><th>Zinc die-cast, nickel-plated</th></tr<>	Locking nut material	Zinc die-cast, nickel-plated
With across flats3With across flats13Cable10m, 8-wire, PUR, halogen-freeJacket materialPIR, halogen-freeJacket colorBackCable diameter7 mmConductor coss section0.25 mm²SheldingNotecherShelding radius> 10x cable diameterFlexibues> 10x cable diameterStationary position> 10x cable diameter <t< th=""><th>Seal material</th><th>FKM</th></t<>	Seal material	FKM
CableIn Rakine PUR, halogen freeColleIn Rakine PUR, halogen freeJacket notionIn Rakine PUR, halogen freeJacket colorIn Rakine PUR, halogen freeColle diameterIn Rakine PUR, PUR, PUR, PUR, PUR, PUR, PUR, PUR,	Tightening torque	0.6 Nm
Jacket materialPUR, halogen, freeJacket colorBickColor color c	Width across flats	13
Jacket color     Biak       Cable diameter     7 m       Conductor cross section     0.25 mm²       Shelding     Shelded       Shelding     Shelded       Bending radius     > 5 x cable diameter       Stationary position     > 5 x cable diameter       Stationary position     > 5 x cable diameter       Drag chain operation     > 10 x cable diameter       Stationary position     > 5 x cable diameter       Stationary position     > 500,000       Reference voltage     20 x Oa       Reference voltage     .       Querent loading     .       Taversing speed     .       Acceleration     .       Signal type     .       Signal type     .       Signal type     .	Cable	10 m, 8-wire, PUR, halogen-free
Cable diameter7 mmConductor coss section0.50 mm²Shelding5 kalediaShelding radius-Flexible> 10 cable diameterStationary notion> 5 kable diameterDrag chanoper> 10 cable diameterStationary notion> 10 cable diameterDrag chanoper> 000000Bending cycles> 000000Reference voltage> 000000Carent loading> 0.8 klStationary notion> 0.8 klStationary notion> 0.8 klCarent loading> 0.9 klStationary notion> 0.8 klStat	Jacket material	PUR, halogen-free
Conductor cross section0.25 mm²Shelding0.26 mm²Bending radiusVFlexible10 x cable diameterStationary potion30 x cable diameterDarg chain poter30 x cable diameterDarg chain poter30 x cable diameterBending rycles30 x cable diameterReference voltage30 x cable diameterComposition30 x cable diameterReference voltage30 x cable diameterReference voltage30 x cable diameterReference voltage30 x cable diameterComposition30 x cable diameterReference voltage30 x cable diameterReference voltage<	Jacket color	Black
ShieldingBialedinaBending radius> 10 coale diameterStationary point> 10 coale diameterStationary point> 10 coale diameterDrag chan point> 10 coale diameterDrag chan point> 10 coale diameterBending cycles> 00000Reference voltage> 00000Stationary point> 00000Rated impulse voltage> 00000Stationary point> 00000Rated impulse voltage> 00000Stationary point> 00000Stationary point> 00000Stationary point> 00000Stationary point> 00000Stationary point> 000000Stationary point> 000000Stationary point> 00000000000000000000000000000000000	Cable diameter	7 mm
Bending radius   > 10 x cable diameter     Stationary position   > 5 x cable diameter     Stationary position   > 10 x cable diameter     Drag chain operation   > 10 x cable diameter     Bending cycles   > 500,000     Reference voltage   > 30 v DC     Rated impulse voltage   0.8 kV     Current loading   > 2.9 A     Taversing speed   > 30 x Cable diameter     Acceleration   > 5.0 NO     Stationary operation   > 3.0 NO     Stationary	Conductor cross section	0.25 mm <sup>2</sup>
Flexible is   > 10 x cable diameter     Stationary position   > 10 x cable diameter     Drag chain operation   > 10 x cable diameter     Stationary position   > 500,000     Reference voltage   > 300,000     Rated impulse voltage   > 30 x DC     Rated impulse voltage   > 30 x DC     Rated impulse voltage   > 30 x DC     Taversing speed   > 24 X     Taversing speed   > 5 m     Acceleration   > 5 ms²     Signal type   > Sens/actuator cable     Signal type   > Sens/actuator cable     Signal type   > 30 x J1 m	Shielding	Shielded
Stationary point> 5 x cable diameterDrag chain operation> 10 x cable diameterBending cycles> 500,000Reference voltage> 30 x DCCarter Loading> 0.8 kVCarter Loading> 2.4 CTavesing speed> 30 x SFaveling distance> 50 x SAccleration> 50 x SSignal type> 50 x STorson force> 00 x SSignal type> 00 x S	Bending radius	
Drag chain operation> 10 x cable diameterBending cycles5,000,000Reference voltage< 30 V DCRated impulse voltage0.8 kVCurrent loading< 2 ATraversing speed3.3 m/sTravelling distance5 mAccelerationSins/2Signal typeSens/actuator cableTorson force0° / 1m	Flexible use	> 10 x cable diameter
Bending cycles   5,000,000     Reference voltage   30 V DC     Rated impulse voltage   0.8 kV     Current loading   2 A     Taversing speed   3.3 m/s     Tavelling distance   5 m     Signal type   Sensor/actuator cable     Torson force   0° / 1 m	Stationary position	> 5 x cable diameter
Reference voltageالعام المعام المعا المعام المعام ال	Drag chain operation	> 10 x cable diameter
SinceRated impulse voltageSinceCurrent loadingSinceTraversing speedSinceTravelling distanceSinceAccelerationSinceSignal typeSensoratuator cableToxion forceSince for cable	Bending cycles	5,000,000
Rated impulse voltage0.8 kVCurrent loading2 ATraversing speed3.3 m/sTravelling distance5 mAcceleration5 m/s²Signal typeSensor/actuator cableTorsion force30° / 1 m	Reference voltage	
Current loading< 2 A		≤ 30 V DC
Traversing speed 3.3 m/s   Travelling distance 5 m   Acceleration < 5 m/s <sup>2</sup> Signal type Sensor/actuator cable   Torsion force 30° / 1 m	Rated impulse voltage	0.8 kV
Travelling distance 5 m   Acceleration 5 m/s <sup>2</sup> Signal type Sensor/actuator cable   Torsion force 30° / 1 m	Current loading	≤ 2 A
Acceleration ≤ 5 m/s <sup>2</sup> Signal type Sensor/actuator cable   Torsion force 30° / 1 m	Traversing speed	3.3 m/s
Signal type Sensor/actuator cable   Torsion force 30° / 1 m	Travelling distance	5 m
Torsion force 30° / 1 m	Acceleration	≤ 5 m/s²
	Signal type	Sensor/actuator cable
<b>Torsion cycles</b> 2,000,000	Torsion force	30°/1m
	Torsion cycles	2,000,000

### YM2A28-100UA6XLEAX | Sensor/actuator cable

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 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2
Classifications	
ECLASS 5.0	19030312

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))



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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."

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Contacts and other locations -www.sick.com



Online data sheet

