

YI2A14-100UB3XLEAX





Ordering information

Туре	Part no.
YI2A14-100UB3XLEAX	2095838

Only suitable for PNP sensors

Other models and accessories → www.sick.com/



Detailed technical data

Technical specifications

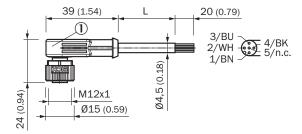
recrifical specifications	
Accessory group	Plug connectors and cables
Accessory family	Connecting cables
Connection type head A	Female connector, M12, 4-pin, angled, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Transparent
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.6 Nm
Width across flats	13
Cable	10 m, 4-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	4.5 mm
Conductor cross-section	0.34 mm ²
Shielding	Unshielded
Bending radius	
Flexible use	> 10 x cable diameter
Stationary position	> 5 x cable diameter
Drag chain operation	> 10 x cable diameter
Bending cycles	10,000,000
Display LED	✓
Reference voltage	≤ 24 V DC
Rated impulse voltage	0.8 kV
Current loading	4 A
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 Cones with oils and lubricants Drag chain operation Note Only suitable for PNP sensors Authorizations UL UL File No. E335179 Enclosure rating 1P65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature -25 °C +80 °C Analysis -25 °C +80 °C Act or +80 °C -25 °C +80 °C Ontamination rating 30 MΩ Insulation resistance 100 MΩ Overvoltage category III Ihermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2.2		
Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Zones with oils and lubricants Drag chain operation Note 0nly suitable for PNP sensors Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature -25 °C +80 °C Stationary position Drag chain operation -25 °C +80 °C Ontamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Acceleration	≤ 10 m/s²
Torsion cycles 2,000,000 Cycles per minutes 35 Application Note Only suitable for PNP sensors Authorizations UL UL File No. E335179 Enclosure rating Description LED function display Specialty Ambient operating Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Thermal resistance, cable 190,000 2,000,000 35 2,000,000 35 2,000,000 35 20,000 35 20,000 20	Signal type	Sensor/actuator cable
Cycles per minutes 35 Application Zones with oils and lubricants Drag chain operation Note Only suitable for PNP sensors Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature Flexible use Stationary position Parag chain operation -25 °C +80 °C Act - 25 °C +80 °C -25 °C +80 °C - 25 °C +85 °C -25 °C +85 °C Contamination rating Insulation resistance 30 MΩ Overvoltage category III Specific insulation resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion force	180° / 1 m
Application Zones with oils and lubricants Drag chain operation Note Only suitable for PNP sensors Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature -25 °C +80 °C Stationary position Drag chain operation -25 °C +80 °C Authorization rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion cycles	2,000,000
Note Drag chain operation Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature Flexible use Stationary position -40 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Cycles per minutes	35
Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature -25 °C +80 °C Stationary position Drag chain operation Preaction Head -25 °C +80 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Application	
UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature Flexible use Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C Drag chain operation -25 °C +80 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Note	Only suitable for PNP sensors
Enclosure rating IP65 / IP66K / IP67 Description LED function display Specialty LED function indicator Ambient operating temperature Flexible use -25 °C +80 °C -40 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance 3 Insulation resistance Overvoltage category III Specific insulation resistance, cable 30 mΩ Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Authorizations	UL
Description LED function display Specialty LED function indicator Ambient operating temperature Flexible use 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 MΩ 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,	UL File No.	E335179
Specialty LED function indicator Ambient operating temperature Flexible use Plexible use Plex	Enclosure rating	IP65 / IP66K / IP67
Ambient operating temperature Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Description	LED function display
Flexible use $-25 ^{\circ}\text{C} \dots + 80 ^{\circ}\text{C}$ Stationary position $-40 ^{\circ}\text{C} \dots + 80 ^{\circ}\text{C}$ Drag chain operation $-25 ^{\circ}\text{C} \dots + 80 ^{\circ}\text{C}$ Head $-25 ^{\circ}\text{C} \dots + 85 ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100 \text{M}\Omega$ Overvoltage category III Specific insulation resistance $30 \text{m}\Omega$ Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Specialty	LED function indicator
Stationary position $-40\ ^{\circ}\text{C} \dots +80\ ^{\circ}\text{C}$ Drag chain operation $-25\ ^{\circ}\text{C} \dots +80\ ^{\circ}\text{C}$ Head $-25\ ^{\circ}\text{C} \dots +85\ ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100\ \text{M}\Omega$ Overvoltage category III Specific insulation resistance $30\ \text{m}\Omega$ Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Ambient operating temperature	
Drag chain operation Head-25 °C +80 °CContamination rating3Insulation resistance100 MΩOvervoltage categoryIIISpecific insulation resistance30 mΩThermal resistance, cableFlame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Flexible use	-25 °C +80 °C
Head -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ 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,	Stationary position	-40 °C +80 °C
$\begin{tabular}{ll} \textbf{Contamination rating} & 3 \\ \hline \textbf{Insulation resistance} & 100 M\Omega \\ \hline \textbf{Overvoltage category} & III \\ \hline \textbf{Specific insulation resistance} & 30 m\Omega \\ \hline \textbf{Thermal resistance, cable} & Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,} \\ \hline \end{tabular}$	Drag chain operation	-25 °C +80 °C
Insulation resistance $100 \text{ M}\Omega$ Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Head	-25 °C +85 °C
Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Contamination rating	3
Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Insulation resistance	100 ΜΩ
Thermal resistance, cable Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Overvoltage category	III
	Specific insulation resistance	30 mΩ
	Thermal resistance, cable	

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

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, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	T00L-TW06M12AF13	5337208		
Plug connectors and cables					
	Head A: female connector, M12, 5-pin, straight Cable: unshielded	DOS-1205-G	6009719		
	Head A: male connector, M12, 5-pin, straight Cable: unshielded For field bus technology	STE-1205-G	6022083		

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