

# YI2A14-050UB3XLEAX





# Ordering information

Туре	Part no.
YI2A14-050UB3XLEAX	2095837

Only suitable for PNP sensors

Other models and accessories → www.sick.com/



#### Detailed technical data

### Technical specifications

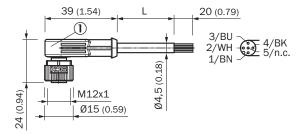
Toommout opcomoutions	
Accessory group	Plug connectors and cables
Accessory family	Connecting cables
Connection type head A	Female connector, M12, 4-pin, angled, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Transparent
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.6 Nm
Width across flats	13
Cable	5 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 <sup>2</sup>
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       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 Prag chain operation Head       -25° C +80° C         -25° C +80° C       -25° C +80° C         -25° C +80° C       -25° C +85° C         Contamination rating       100 MΩ         Specific insulation resistance       100 MΩ         Overvoltage category       III         Thermal resistance, cable       51 Elame 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 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 Drag chain operation Prag chain operation Prag chain operation Simulation rating Sinsulation resistance 100 MΩ  Overvoltage category III  Thermal 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  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  -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C  Contamination rating  Insulation resistance  100 MΩ  Vervoltage category  Specific insulation resistance, cable  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Signal type	Sensor/actuator cable
Cycles per minutes  Application  Note  Only suitable for PNP sensors  Authorizations  UL  UL File No.  E335179  Enclosure rating  Description  LED function indicator  Ambient operating temperature  Flexible use Stationary position Drag chain operation  Drag chain operation  Ambient operating temperature  Flexible use Contamination rating Insulation resistance  Overvoltage category  Specific insulation resistance  Thermal resistance, cable  Accounts with oils and lubricants  Authorization  Drag chain operation  Specific insulation resistance  Drag chain operation  Drag chain operation  Specific insulation resistance  Drag chain operation  Specific insulation resistance  Drag chain operation  Drag chain operation  Drag chain operation  Specific insulation resistance  Drag chain operation  Drag chain operation  Specific insulation resistance  Drag chain operation  Specific insulation resistance  Drag chain operation  Drag chain operation  Drag chain operation  Specific insulation resistance  Drag chain operation  Drag chain operation  Specific insulation resistance  Drag chain operation  Drag chain operatio	Torsion force	180°/1m
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 Prag chain operation Prag chai	Torsion cycles	2,000,000
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 -40 °C +80 °C -40 °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       Flexible use Stationary position Drag chain operation Prag chain operation Head       -25 °C +80 °C         Lead       -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 Stationary position Prag chain operation	Note	Only suitable for PNP sensors
Enclosure rating       IP65 / IP66K / IP67         Description       LED function display         Specialty       LED function indicator         Ambient operating temperature       Flexible use         Stationary position       -25 °C +80 °C         -40 °C +80 °C       -25 °C +80 °C         -25 °C +85 °C         Contamination rating       3         Insulation resistance       100 MΩ         Overvoltage category       III         Specific insulation resistance, cable       30 mΩ         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       -25 °C +80 °C         Stationary position       -40 °C +80 °C       -25 °C +80 °C         Drag chain operation       -25 °C +80 °C       -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         Ambient operating temperature         Flexible use Plexible	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 $-25  ^{\circ}\text{C} \dots + 80  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots + 85  ^{\circ}\text{C}$ 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
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ambient operating temperature	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	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
	Drag chain operation	-25 °C +80 °C
	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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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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