

# YF2A14-150UB3N2A14

Sensor/actuator cable





### Ordering information

Туре	Part no.
YF2A14-150UB3N2A14	2096115

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



#### Detailed technical data

### Technical specifications

Connection type head A	Female connector, M12, 4-pin, straight, A-coded
Connection type head B	Male connector, M12, 4-pin, angled, A-coded
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.6 Nm
Width across flats	13
Cable	15 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
Nominal voltage, cable	300 V AC
Test voltage, cable	2,500 V AC
Reference voltage	
	250 V AC
	250 V DC
Rated impulse voltage	2.5 kV
Current loading	4 A
Traversing speed	3 m/s
Travelling distance	10 m
Acceleration	≤ 10 m/s²

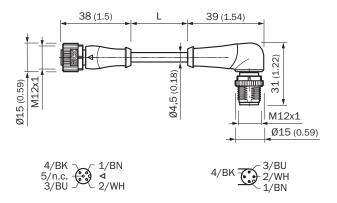
Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35           Application         Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation           Authorizations         CE UL           UL File No.         E335179           Enclosure rating         IP65 / IP66K / IP67           Operating temperature         Flexible use Stationary position Drag chain operation Pag chain operation Head         -25 °C +80 °C           Contamination rating         3           Insulation resistance         100 MΩ           Overvoltage category         III           Specific insulation resistance         30 mΩ		
Torsion cycles  Cycles per minutes  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No.  E335179  Enclosure rating  Operating temperature  Flexible use Stationary position Drag chain operation  Contamination rating  Insulation resistance  Specific insulation resistance  Thermal resistance, piping  2,000,000  35  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  Contaminated zones Zones with oils and lubricants Robot Drag chain operation  Contamination rating  100 MΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Signal type	Sensor/actuator cable
Cycles per minutes  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No.  Enclosure rating  Operating temperature  Flexible use Stationary position Drag chain operation  Drag chain operation  Head  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL  E335179  IP65 / IP66K / IP67  CE UL  CO  CO  CO  CO  CO  CO  CO  CO  CO  C	Torsion force	180°/1 m
Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No. E335179  Enclosure rating Operating temperature  Flexible use Stationary position Drag chain operation  C = 0.25 ° C +80 ° C -40 ° C +80 ° C -25 ° C +80 ° C -25 ° C +80 ° C -25 ° C +85 ° C  Contamination rating Insulation resistance Overvoltage category III  Specific insulation resistance Thermal resistance, piping  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL  1965 / IP66K / IP67  CC  Comamination rating CONES	Torsion cycles	2,000,000
Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No. E335179  Enclosure rating Operating temperature  Flexible use Stationary position Drag chain operation  Co +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C  Contamination rating Insulation resistance  Overvoltage category III  Specific insulation resistance  Thermal resistance, piping  Zones with oils and lubricants Robot Drag chain operation  CE UL  Base 1966 / IP67  E335179  Flow 80 °C -40 °C +80 °C -40 °C +80 °C -40 °C +80 °C -25 °C +85 °C  Contamination rating Insulation resistance  100 MΩ  Flow 90 Fl	Cycles per minutes	35
UL  File No.  Enclosure rating  Operating temperature  Flexible use Stationary position Drag chain operation Head  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Application	Zones with oils and lubricants Robot
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 MΩ         Overvoltage category       III         Specific insulation resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Authorizations	
Flexible use Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance  Overvoltage category  Thermal resistance, piping  Flexible use -25 °C +80 °C -40 °C +80 °C -25 °C +85 °C  25 °C +85 °C  3  Insulation resistance 100 MΩ  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	UL File No.	E335179
Flexible use Stationary position Drag chain operation Head  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  Flexible use  -25 °C +80 °C  -25 °C +80 °C  -25 °C +85 °C  100 MΩ  100 MΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Enclosure rating	IP65 / IP66K / IP67
Stationary position Drag chain operation Head -25 °C +80 °C -25 °C +85 °C  Contamination rating Insulation resistance 100 MΩ  Overvoltage category III  Specific insulation resistance 30 mΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Operating temperature	
Drag chain operation Head -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, piping Flame 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, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Stationary position	-40 °C +80 °C
Contamination rating       3         Insulation resistance $100 \text{ M}\Omega$ Overvoltage category       III         Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	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, piping       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 mΩ         Thermal resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Contamination rating	3
Specific insulation resistance 30 mΩ  Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Insulation resistance	100 ΜΩ
Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Overvoltage category	III
	Specific insulation resistance	30 mΩ
	Thermal resistance, piping	

### Classifications

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

# YF2A14-150UB3N2A14 | Sensor/actuator cable

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



#### Recommended accessories

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

	Brief description	Туре	Part no.
Other mounting	ng accessories		
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	TOOL-TW06M12AF13	5337208

### SICK AT A GLANCE

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."

## **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

