

# YF2A13-C60S02M8U13

Other connectors and cables





### Ordering information

Туре	Part no.
YF2A13-C60S02M8U13	2124514

Other models and accessories → www.sick.com/Other\_connectors\_and\_cables



#### Detailed technical data

#### Technical specifications

,	
Connection type head A	Female connector, M12, 3-pin, straight, A-coded
Connection type head B	Male connector, M8, 3-pin, straight, A-coded
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)
Seal material	FKM
Tightening torque	0.4 Nm (M8), 0.6 Nm (M12)
Width across flats	9 (M8), 13 (M12)
Cable	0.6 m, 3-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	4.1 mm
Conductor cross section	0.25 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	
	48 V AC
	60 V DC
Rated impulse voltage	1.5 kV
Current loading	≤ 4 A
Traversing speed	3 m/s
Travelling distance	10 m
Acceleration	≤ 10 m/s²

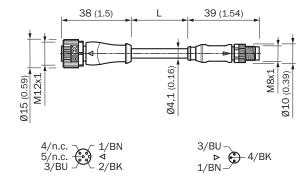
Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35           Special feature         Pin 2 and pin 4 swapped over           Application         Zones with oils and lubricants Drag chain operation           UL         Enclosure rating           UL File No.         E335179           Enclosure rating         IP65 / IP66K / IP67           Operating temperature         Flexible use Stationary position Prag chain operation Prag chain operation         -25 ° C +80 ° C           Op Trag 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		
Torsion cycles  Cycles per minutes  Special feature  Application  Authorizations  UL  UL File No.  E335179  Enclosure rating  Operating temperature  Flexible use Stationary position  Drag chain operation  Head  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  Pin 2 and pin 4 swapped over  Zones with oils and lubricants Drag chain operation  UL  UL File No.  E335179  E70	Signal type	Sensor/actuator cable
Cycles per minutes  Special feature  Application  Authorizations  UL  UL File No.  Enclosure rating  Operating temperature  Flexible use Stationary position  Drag chain operation  -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  Specific insulation resistance  Thermal resistance, piping  Pin 2 and pin 4 swapped over  Zones with oils and lubricants Drag chain operation  UL  -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C  Stationary position -25 °C +85 °C  Stationary position -25 °C +85 °C  Fleame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion force	180°/1m
Special feature       Pin 2 and pin 4 swapped over         Application       Zones with oils and lubricants Drag chain operation         Authorizations       UL         UL File No.       E335179         Enclosure rating       IP65 / IP66K / IP67         Operating temperature       Flexible use Stationary position -40 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C         Contamination rating Insulation resistance       3         Insulation resistance category       III         Specific insulation resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion cycles	2,000,000
Application  Zones with oils and lubricants Drag chain operation  UL File No.  Enclosure rating  Operating temperature  Flexible use Stationary position  Drag chain operation  Head  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  Zones with oils and lubricants Drag chain operation  UL  E335179  IP65 / IP66K / IP67  Contamination  Flexible use -25 ° C +80 ° C -25 ° C +85 ° C  Zones with oils and lubricants  Drag chain operation  IP65 / IP66K / IP67  Contamination temperature  -25 ° C +80 ° C -25 ° C +80 ° C -25 ° C +80 ° C -25 ° C +85 ° C  Son MΩ  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         Operating temperature       Flexible use Stationary position A0°C +80°C         Drag chain operation Prag chain operation A10 Prag chain operation A10 Prag chain operation A10 Prag chain operation A10 Prag Chain A10 Prag Ch	Special feature	Pin 2 and pin 4 swapped over
UL File No.  Enclosure rating  P65 / IP66K / IP67  Operating temperature  Flexible use Stationary position Drag chain operation Pead Contamination rating Insulation resistance  Overvoltage category  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Application	
Enclosure rating  Operating temperature  Flexible use Stationary position Drag chain operation Pead  Contamination rating Insulation resistance  Overvoltage category  Thermal resistance, piping  IP65 / IP66K / IP67  Pead  -25 °C +80 °C  -40 °C +80 °C  -25 °C +80 °C  -25 °C +85 °C  III  Specific insulation resistance  30 mΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Authorizations	UL
Operating temperature         Flexible use	UL File No.	E335179
Flexible use Stationary position $-25  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ $-40  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots +85  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots +85  ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance 100 M $\Omega$ Ull Specific insulation resistance 30 m $\Omega$ 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 Contamination rating Insulation resistance  Overvoltage category  Thermal resistance, piping  -40 °C +80 °C -25 °C +80 °C -25 °C +85 °C  3  Insulation resistance  100 MΩ  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 $-25$ °C +80 °C         Head $-25$ °C +85 °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,	Flexible use	-25 °C +80 °C
Head $-25$ °C +85 °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,	Stationary position	-40 °C +80 °C
	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 $30 \text{ m}\Omega$ Thermal resistance, piping 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, 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

# YF2A13-C60S02M8U13 | Other connectors and cables

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



## 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

