

# YF8U14-020VA3M8U14

Sensor/actuator cable

**PLUG CONNECTORS AND CABLES** 





### Ordering information

Туре	Part no.
YF8U14-020VA3M8U14	2096614

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



#### Detailed technical data

#### Technical specifications

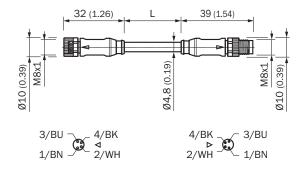
Accessory group         Plug connectors and cables           Connection type head A         Censection cables           Connection type head B         Male connector, M8, 4-pin, straight, A-coded           Locking plug connector         Screw connection           Connector material         TPU           Connector material         Zinc die cast, nickel-plated (female connector), Nickel-plated brass (male connector)           Seal material         FKM           Tightening torque         0.4 Nm           Width across flats         9           Cable         2 m, 4-wire, PVC           Jacket material         PVC           Jacket color         Gray           Cable diameter         4.8 mm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         Flexible use stationary position         > 10 x cable diameter           Nominal voltage, cable         300 V AC           Test voltage, cable         50 V AC           GoV DC           Rated impulse voltage         1.5 kV           Current loading         4 A           Signal type         Sensor/actuator cable           Application         UL	reciffical specification	113	
Connection type head A         Female connector, M8, 4-pin, straight, A-coded           Connection type head B         Male connector, M8, 4-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           Width across flats         9           Cable         2 m, 4-wire, PVC           Jacket material         PVC           Jacket color         Gray           Cable diameter         4.8 mm           Conductor cross section         0.25 mm²           Shelding         Unshielded           Bending radius         Flexible use Stationary position         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Nominal voltage, cable         300 V AC           Test voltage, cable         50 V AC           GoV DC           Rated impulse voltage         1.5 kV           Current loading         4 A           Signal type         Sensor/actuator cable           Application         Zones with chemicals	Accessory group		Plug connectors and cables
Connection type head B Locking plug connector Screw connection  TPU Connector material Locking nut material Locking nut material Seal material FKM Tightening torque Width across flats 9 Cable Jacket material PVC Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Nominal voltage, cable Reference voltage Signal type Application  Seal material FKM Tightening torque Vidth across flats 9 Cable 2 m, 4-wire, PVC Gray Cable diameter 4.8 mm Conductor cross section 0.25 mm² Vinshielded Vinshielded Vinshielded Vinshielded Signal type Application  Seal material Application TPU Black Signal type Screw connection Screw connection TPU Black Signal type Screw connection TPU Black Signal type Screw connection Screw connection TPU Black Signal type Screw connection Screw connection TPU Black Signal type Screw connection Screw connector), Nickel-plated brass (male connector), Nickel-plated brass (male connector) Sinck FKM Tight discharce splated (female connector), Nickel-plated brass (male connector) Sinck FKM Signal type Screw connection Signal type Screw connector) Signal type	Accessory family		Connection cables
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         Width across flats       9         Cable       2 m, 4-wire, PVC         Jacket material       PVC         Jacket color       Gray         Cable diameter       4.8 mm         Conductor cross section       0.25 mm²         Shielding       Unshielded         Bending radius       > 10 x cable diameter         Stationary position       > 5 x cable diameter         Nominal voltage, cable       300 v AC         Test voltage, cable       2,000 v AC         Reference voltage       50 v AC         60 v DC       0 v DC         Rated impulse voltage       1.5 kV         Current loading       4 A         Signal type       Sensor/actuator cable         Application       Zones with chemicals	Connection type head A		Female connector, M8, 4-pin, straight, A-coded
Connector material Connector color Black Locking nut material FKM Tightening torque 0.4 Nm Width across flats 9 Cable Jacket material PVC Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Fiexible use Stationary position Fexible diameter  Nominal voltage, cable So V AC 60 V DC Rated impulse voltage Application Fixed Signal type Application Fexible use Sensor/actuator cable Application Fixed Application Fixed F	Connection type head B		Male connector, M8, 4-pin, straight, A-coded
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       Width across flats     9       Cable     2 m, 4-wire, PVC       Jacket material     PVC       Jacket color     Gray       Cable diameter     4.8 mm       Conductor cross section     0.25 mm²       Shelding     Unshielded       Bending radius     Flexible use Stationary position     > 5 x cable diameter       Nominal voltage, cable     300 V AC       Test voltage, cable     2,000 V AC       Reference voltage     50 V AC       60 V DC       Rated impulse voltage     1.5 kV       Current loading     4 A       Signal type     Sensor/actuator cable       Application     Zones with chemicals	Locking plug connector		Screw connection
Locking nut material  Seal material  FKM  0.4 Nm  Width across flats  9  Cable  2 m, 4-wire, PVC  Jacket material  Jacket color  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Nominal voltage, cable  Test voltage  So V AC  60 V DC  Rated impulse voltage  Application  Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)  FKM  0.4 Nm  9  2 m, 4-wire, PVC  9 my  4.8 mm  0.25 mm²  Unshielded  PVC  Gray  4.8 mm  0.25 mm²  Unshielded  So V AC  60 V DC  Rated impulse voltage  4 A  Signal type  Application  Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)  FKM  0.4 Nm  0.4 Nm  9  4 Nm  9  4 A  Signal type  Application	Connector material		TPU
Seal material FKM   Tightening torque 0.4 Nm   Width across flats 9   Cable 2 m, 4-wire, PVC   Jacket material PVC   Jacket color Gray   Cable diameter 4.8 mm   Conductor cross section 0.25 mm²   Shielding Unshielded   Bending radius > 10 x cable diameter   Flexible use Stationary position > 5 x cable diameter   Nominal voltage, cable 300 V AC   Test voltage, cable 2,000 V AC   Reference voltage 50 V AC   60 V DC 60 V DC   Rated impulse voltage 1.5 kV   Current loading 4 A   Signal type Sensor/actuator cable   Application Zones with chemicals	Connector color		Black
Tightening torque  Width across flats  9  Cable 2 m, 4-wire, PVC  Jacket material PVC  Gray  Cable diameter 4.8 mm  Conductor cross section O.25 mm²  Unshielded  Bending radius  Flexible use Stationary position Stationary position  Nominal voltage, cable Test voltage, cable Reference voltage Flexible voltage  50 V AC  60 V DC  Rated impulse voltage  Lis kV  Current loading Application  O.4 Nm  9  Curlent loading A-wire, PVC  2 m, 4-wire, PVC  9  Curlent loading A-wire, PVC  2 m, 4-wire, PVC  9  Curlent loading A-wire, PVC  2 m, 4-wire, PVC  9  Curlent loading A-wire, PVC  2 m, 4-wire, PVC  9  Curlent loading A-wire, PVC  1	Locking nut material		Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)
Width across flats  Cable 2 m, 4-wire, PVC  Jacket material PVC  Gray  Cable diameter 4.8 mm  Conductor cross section Shielding Unshielded  Bending radius Flexible use Stationary position 5 x cable diameter  Nominal voltage, cable 2,000 V AC  Test voltage, cable Ference voltage 50 V AC 60 V DC  Rated impulse voltage 4 A  Signal type Application  2 m, 4-wire, PVC  Gray  2 m, 4-wire, PVC  4 m, 4-wire, PVC 4 material 9 m, 4-wire, PVC 9 m, 4-wire, PVC 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC 9 material 9 m, 4-wire, PVC	Seal material		FKM
Cable Jacket material PVC Gray Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Nominal voltage, cable Test voltage Reference voltage Factor of VDC Rated impulse voltage Current loading Signal type Application As mm	Tightening torque		0.4 Nm
Jacket material PVC  Gray  Cable diameter 4.8 mm  Conductor cross section 0.25 mm²  Shielding Unshielded  Bending radius  Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter  Stationary position > 5 x cable diameter  Nominal voltage, cable 300 V AC  Test voltage, cable 2,000 V AC  Reference voltage 50 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application 2 zones with chemicals	Width across flats		9
Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Nominal voltage, cable Test voltage, cable Reference voltage Flexible voltage So V AC Go V DC Rated impulse voltage Current loading Signal type Application  Gray  4.8 mm  4.8 mm  5.25 mm²  5.10 x cable diameter  5.10 x cable diameter  5.5 x c	Cable		2 m, 4-wire, PVC
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Nominal voltage, cable Test voltage, cable Reference voltage Flexible use Stationary position To VAC Fo VAC Fo VAC Fo V DC Rated impulse voltage List kV Current loading Signal type Application  4.8 mm  4.8	Jacket material		PVC
Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Nominal voltage, cable  Test voltage, cable  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  Sensor/actuator cable  Application  O.25 mm²  Unshielded  10 x cable diameter  > 5 x cable d	Jacket color		Gray
Shielding Bending radius  Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter  Nominal voltage, cable 300 V AC  Test voltage, cable 2,000 V AC  Reference voltage  50 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Unshielded  > 10 x cable diameter  > 50 V AC 60 V DC  Application  Unshielded	Cable diameter		4.8 mm
Flexible use Stationary position > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter    Nominal voltage, cable 300 V AC  Test voltage, cable 2,000 V AC  Reference voltage 50 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Signal type Sensor/actuator cable Zones with chemicals	Conductor cross section		0.25 mm <sup>2</sup>
Flexible use Stationary position > 10 x cable diameter  Nominal voltage, cable 300 V AC  Test voltage, cable 2,000 V AC  Reference voltage 50 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals	Shielding		Unshielded
Nominal voltage, cable  300 V AC  Test voltage, cable  2,000 V AC  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A  Signal type  Application  > 5 x cable diameter  300 V AC  60 V AC  60 V DC  2,000 V AC  50 V AC  60 V DC  2.5 kV  4 A  Sensor/actuator cable  Zones with chemicals	Bending radius		
Nominal voltage, cable  Test voltage, cable  2,000 V AC  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A  Signal type  Application  300 V AC  2,000 V AC  2,000 V AC  50 V AC  60 V DC  250 V AC  60 V DC  6		Flexible use	> 10 x cable diameter
Test voltage, cable  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  2,000 V AC		Stationary position	> 5 x cable diameter
Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Zones with chemicals	Nominal voltage, cable		300 V AC
50 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals	Test voltage, cable		2,000 V AC
Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Application Zones with chemicals	Reference voltage		
Rated impulse voltage 1.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals			50 V AC
Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals			60 V DC
Signal type Sensor/actuator cable Application Zones with chemicals	Rated impulse voltage		1.5 kV
Application Zones with chemicals			4 A
	Signal type		Sensor/actuator cable
<b>Authorizations</b> UL	Application		Zones with chemicals
	Authorizations		UL

UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Ambient operating temperature	
Flexible use	-5 °C +80 °C
Stationary position	-30 °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

#### 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

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



# YF8U14-020VA3M8U14 | Sensor/actuator cable

PLUG CONNECTORS AND CABLES

#### Recommended accessories

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

	Brief description	Туре	Part no.	
Other mounting accessories				
	1 piece, M8 mounting key set for SW9 with calibrated torque 0.4 Nm	TOOL-TWO4M08AF09	5337207	

## 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

