

# YG2A15-020UB5M2A15

Sensor/actuator cable





## Ordering information

Туре	Part no.
YG2A15-020UB5M2A15	2095601

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



#### Detailed technical data

## Technical specifications

Connection type head A         Female connector, M12, 5-pin, angled, A-coded           Connection type head B         Male connector           Locking plug connector         Screw connection           Connector material         TPU           Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use, Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Stationary collision of Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter	'	
Connector material         Screw connection           Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Stationary position         > 10 x cable diameter           Bending cycles         10,000,000           Nominal voltage, cable         20 x 0 x 0 x 0           Test voltage, cable         25 x 0 x 0           Test voltage, cable         25 y 0 x 0           Reference voltage         125 y 0 x 0           Rated impulse voltage         1.5 kV           Current loading         4 A           Travesling speed         3 m/s           Travelling distance         10 m	Connection type head A	Female connector, M12, 5-pin, angled, A-coded
Connector color         Elack           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Drag chain operation         > 10 x cable diameter           Shoulding cycles         10,000,000           Nominal voltage, cable         300 V AC           Reference voltage         125 V AC           125 V DC           Rated Impulse voltage         1.5 kV           Current loading         4 A           Traversing speed         10 m           Travelling distance         10 m	Connection type head B	Male connector, M12, 5-pin, straight, A-coded
Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Flexible us Stationary position         > 10 x cable diameter           Stationary position         > 10 x cable diameter           Proag chain operation         > 10 x cable diameter           Nominal voltage, cable         10,000,000           Reference voltage         2,500 v AC           Test voltage, cable         125 v AC           125 v DC           Rated impulse voltage         1.5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         10 m	Locking plug connector	Screw connection
Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shelding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Nominal voltage, cable         10,000,000           Reference voltage         2,500 V AC           Reference voltage         125 V AC           125 V DC           Rated impulse voltage         1,5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         10 m	Connector material	TPU
Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shelding         Unshielded           Bending radius         Flexible use         5 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         125 V AC           125 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A           Traversing speed         3 m/s           Tavelling distance         10 m	Connector color	Black
Tightening torque         0.6 Nm           Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         * 10 x cable diameter           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         125 V AC           125 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         10 m	Locking nut material	Zinc die-cast, nickel-plated
Width across flats         13           Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use           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         125 V AC           125 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         10 m	Seal material	FKM
Cable         2 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation         > 5 x cable diameter           Drag chain operation Drag chain operation         > 10 x cable diameter           Nominal voltage, cable         300 V AC           Test voltage, cable         2,500 V AC           Reference voltage         125 V AC           125 V DC           Rated impulse voltage         1,5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         10 m	Tightening torque	0.6 Nm
Jacket material  Jacket color  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Shoulding voltage, cable  Test voltage, cable  Reference voltage  Reference voltage  Rated impulse voltage  Current loading  Traversing speed  Tavelling distance  PUR, halogen-free  Black  As mm  As mm  Conductor cross section  0.34 mm²  Current loading  PUR, halogen-free  Black  Black  As mm  Cas mm  As mm²  Current loading  PUR, halogen-free  Black  Black  As mm  Conductor  Conduc	Width across flats	13
Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position Paragchain operation Prag chain op	Cable	2 m, 5-wire, PUR, halogen-free
Cable diameter 4.8 mm  Onductor cross section 0.34 mm²  Shielding Unshielded  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation 2.000,000  Bending cycles 10,000,000  Nominal voltage, cable 300 V AC 2.500 V AC  Test voltage, cable 2.500 V AC  Reference voltage 125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Traversing speed 3 m/s  Travelling distance 10 mm²  Unshielded 1.5 kW  One of the market of t	Jacket material	PUR, halogen-free
Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation Drag chain	Jacket color	Black
Shielding Bending radius  Flexible use Stationary position Drag chain operation  Bending cycles Nominal voltage, cable Test voltage Reference voltage  Rated impulse voltage  Current loading Traversing speed Travelling distance  Lond x cable diameter > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter > 10,000,000  10,000,000  10,000,000  10,000,00	Cable diameter	4.8 mm
Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation Drag chain operation Stationary Position Drag chain operation Drag chain operation Stationary Position Drag chain operation Stationary Position Position Stationary Position Stationary Position Pos	Conductor cross section	0.34 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation  Bending cycles Nominal voltage, cable Test voltage  Reference voltage  125 V AC 125 V DC  Rated impulse voltage  1.5 kV  Current loading Traverling distance  > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10,000,000  300 V AC  2,500 V AC  2,500 V AC  125 V DC  Rated impulse voltage  4 A  3 m/s  10 m	Shielding	Unshielded
Stationary position Drag chain operation  Bending cycles 10,000,000  Nominal voltage, cable Test voltage, cable  Reference voltage 125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading Traverling distance  > 5 x cable diameter > 10,000,000  > 300 V AC  2,500 V AC  2,500 V AC  125 V DC  125 V DC  1.5 kV  4 A  3 m/s  Travelling distance 10 m	Bending radius	
Drag chain operation > 10 x cable diameter  10,000,000  Nominal voltage, cable 2,500 V AC  Reference voltage 125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading Traversing speed 3 m/s  Travelling distance 100 000000000000000000000000000000000	Flexible use	> 10 x cable diameter
Bending cycles10,000,000Nominal voltage, cable300 V ACTest voltage, cable2,500 V ACReference voltage125 V AC 125 V DCRated impulse voltage1.5 kVCurrent loading4 ATraversing speed3 m/sTravelling distance10 m	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable Reference voltage  125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading Traversing speed 3 m/s  Travelling distance 300 V AC 2,500 V AC  125 V AC 125 V AC 125 V DC  1.5 kV  1.5 kV  1.5 kV  1.5 kV  1.5 kV  1.5 kV	Drag chain operation	> 10 x cable diameter
Test voltage, cable  Reference voltage  125 V AC 125 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A  Traversing speed  3 m/s  Travelling distance  2,500 V AC	Bending cycles	10,000,000
Reference voltage  125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Traversing speed 3 m/s  Travelling distance 10 m	Nominal voltage, cable	300 V AC
125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Traversing speed 3 m/s  Travelling distance 10 m	Test voltage, cable	2,500 V AC
125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Traversing speed 3 m/s  Travelling distance 10 m	Reference voltage	
Rated impulse voltage 1.5 kV  Current loading 4 A  Traversing speed 3 m/s  Travelling distance 10 m		125 V AC
Current loading4 ATraversing speed3 m/sTravelling distance10 m		
Traversing speed 3 m/s Travelling distance 10 m		
Travelling distance 10 m		
Acceleration ≤ 10 m/s²		10 m
	Acceleration	≤ 10 m/s²

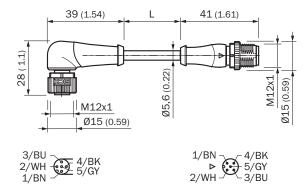
Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35           Application         Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation           Authorizations         CE UL           UL File No.         E335179           Enclosure rating         IP65 / IP66K / IP67           Operating temperature         Flexible use Stationary position Drag chain operation Pag chain operation Head         -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °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  Drag chain operation  Head  Overvoltage category  Specific insulation resistance  Thermal resistance, piping  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Drag chain operation - 25 °C +80 °C - 40 °C +80 °C - 25 °C +80 °C - 25 °C +85 °C  Sommandion resistance  100 MΩ  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	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  Ill  Specific insulation resistance  Thermal resistance, piping  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation -CE UL  100 M  100 M	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  Co +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +85 °C  Contamination rating Insulation resistance  100 MΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	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

# YG2A15-020UB5M2A15 | 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 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

