

# YM2A1D-050UV1XLEAX

Sensor/actuator cable



### Ordering information

Туре	Part no.
YM2A1D-050UV1XLEAX	2118015

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

#### Detailed technical data

#### Technical specifications

Connection type head A  Connection type head B  Lockling plug connector  Cable  5 m, 17-wire, PUR  Jacket material  Jacket color  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Rated impulse voitage  Current loading  Signal type  Application  Authorizations  UL CE  UL File No.  Enclosure rating Operating temperature  Flexible use Stationary position  Flexible use Contamination rating Insulation resistance  100 MΩ  Flying leads  Flexible use  Sa cable diameter  9 8 x cable			
Locking plug connector     Screw connection       Cable     5 m, 17-wire, PUR       Jacket material     PUR       Jacket color     Black       Cable diameter     7 mm       Conductor cross section     0.14 mm²       Shielding     Unshielded       Bending radius     Flexible use Stationary position       Rated impulse voltage     0.8 kV       Current loading     \$ 1.5 A       Signal type     Sensor/actuator cable       Application     Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation       Authorizations     UL CE       UL File No.     E335179       Enclosure rating     IP67       Operating temperature     Flexible use Stationary position Head     -20 °C +80 °C       Head     -20 °C +80 °C       -20 °C +80	Connection type head A		Male connector, M12, 17-pin, straight
S m, 17-wire, PUR     Jacket material   PUR     Jacket color   Black     Cable diameter   7 mm     Conductor cross section   0.14 mm²     Shielding   Unshielded     Bending radius     Flexible use   > 12 x cable diameter     Stationary position   > 8 x cable diameter     Signal type   Sensor/actuator cable     Application   Uncontaminated zones     Zones with oils and lubricants     Robot     Drag chain operation     UL File No.   E335179     Enclosure rating   P67     Operating temperature     Flexible use   -20 ° C + 80 ° C     -40 ° C + 80 ° C     -20 ° C + 80 ° C     Contamination rating   Insulation resistance   100 MΩ     Insulation resistance   100 MΩ     Signal type   Sensor/actuator cable     Uncontaminated zones     Contamination rating   P67     Contamination rating   P67     Contamination resistance   100 MΩ     Signal type   Sensor/actuator cable     Cable diameter     Sa x cab	Connection type head B		Flying leads
Jacket material  Jacket color  Black  Cable diameter  7 mm  Conductor cross section  0.14 mm²  Shielding  Unshielded  Bending radius  Flexible use Stationary position  Rated impulse voltage  Current loading  5 1.5 A  Signal type  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  Authorizations  UL File No. E335179  Enclosure rating  Operating temperature  Flexible use Stationary position Head  Contamination rating  Insulation resistance  PUR  Unmathemath Unsubstication  PUR  Unshielded  Unshielded  Unshielded  Unshielded  Sea cable diameter  > 8 x cable diameter	Locking plug connector		Screw connection
Jacket color       Black         Cable diameter       7 mm         Conductor cross section       0.14 mm²         Shelding       Unshielded         Bending radius       Flexible use       > 12 x cable diameter         Stationary position       > 8 x cable diameter         Rated impulse voltage       0.8 kV         Current loading       ≤ 1.5 A         Signal type       Sensor/actuator cable         Application       Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations       UL CE         UL File No.       E335179         Enclosure rating       IP67         Operating temperature       Flexible use Stationary position Ave C -40 °C +80 °C         Head       -20 °C +80 °C         Contamination rating       3         Insulation resistance       100 MΩ	Cable		5 m, 17-wire, PUR
Cable diameter       7 mm         Conductor cross section       0.14 mm²         Shielding       Unshielded         Bending radius       Flexible use Stationary position       > 12 x cable diameter         Rated impulse voltage       0.8 kV         Current loading       ≤ 1.5 A         Signal type       Sensor/actuator cable         Application       Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations       UL CE         UL File No.       E335179         Enclosure rating       IP67         Operating temperature       Flexible use Stationary position Head       -20 °C +80 °C         -40 °C +80 °C       -20 °C +80 °C         Contamination rating       3         Insulation resistance       100 MΩ	Jacket material		PUR
Conductor cross section         Shelding         Bending radius         Flexible use Stationary position         Rated impulse voltage         Current loading         Signal type         Application         Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations         UL CE         UL File No.         Enclosure rating         Operating temperature         Flexible use Stationary position Head         Head         Contamination rating         Insulation resistance	Jacket color		Black
Shielding         Bending radius         Flexible use Stationary position       > 12 x cable diameter         Rated impulse voltage         Current loading       ≤ 1.5 A         Signal type       Sensor/actuator cable         Application       Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations       UL CE         UL File No.       E335179         Enclosure rating       IP67         Operating temperature       Flexible use Stationary position Head       -20 °C +80 °C -20 °C +80 °C         Contamination rating       3         Insulation resistance       100 MΩ	Cable diameter		7 mm
Bending radius  Flexible use Stationary position  Rated impulse voltage  Current loading  Signal type  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  Authorizations  UL CE  UL File No.  Enclosure rating  Operating temperature  Flexible use Stationary position Head  Contamination rating Insulation resistance  Stationary position  AUD  CONTAMINATION  Plexible use Stationary position Head  AUD  Plexible use Stationary Position AUD  Plexible use Stationary Plexible use AUD  Plexible use Authorization AUD  Plexible use Authorization Authorizatio	Conductor cross section		0.14 mm <sup>2</sup>
Flexible use Stationary position  Rated impulse voltage  Current loading  Signal type  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  UL CE  UL File No.  Enclosure rating  Operating temperature  Flexible use Stationary position Head  Contamination rating Insulation resistance  Stationary position  > 12 x cable diameter > 8 x cable diameter	Shielding		Unshielded
Stationary position  Rated impulse voltage  Current loading  Signal type  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  UL File No.  Enclosure rating  Operating temperature  Flexible use Stationary position  Head  Contamination rating  Insulation resistance  Sensor/actuator cable Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  UC CE  -20 °C +80 °C	Bending radius		
Rated impulse voltage       0.8 kV         Current loading       ≤ 1.5 A         Signal type       Sensor/actuator cable         Application       Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations       UL CE         UL File No.       E335179         Enclosure rating       IP67         Operating temperature       Flexible use Stationary position Head         Flexible use Contamination rating       3         Insulation resistance       100 MΩ		Flexible use	> 12 x cable diameter
Current loading       ≤ 1.5 A         Signal type       Sensor/actuator cable         Application       Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations       UL CE         UL File No.       E335179         Enclosure rating       IP67         Operating temperature       Flexible use -20 °C +80 °C -40 °C +80 °C -20 °C +80 °C         Stationary position Head -20 °C +80 °C       -20 °C +80 °C         Contamination rating Insulation resistance       3		Stationary position	> 8 x cable diameter
Signal type       Sensor/actuator cable         Application       Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations       UL CE         UL File No.       E335179         Enclosure rating       IP67         Operating temperature       Flexible use Stationary position Head       -20 °C +80 °C         Head       -20 °C +80 °C         Contamination rating       3         Insulation resistance       100 MΩ	Rated impulse voltage		0.8 kV
Application       Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation         Authorizations       UL CE         UL File No.       E335179         Enclosure rating       IP67         Operating temperature       Flexible use -20 °C +80 °C -40 °C +80 °C -40 °C +80 °C -20 °C +80 °C         Contamination rating       3         Insulation resistance       100 MΩ	Current loading		≤ 1.5 A
Zones with oils and lubricants Robot Drag chain operation  Authorizations  UL CE  UL File No. E335179  Enclosure rating  Operating temperature  Flexible use -20 °C +80 °C Stationary position -40 °C +80 °C  -20 °C +80 °C  Contamination rating  Insulation resistance  3  Insulation resistance	Signal type		Sensor/actuator cable
UL File No.E335179Enclosure ratingIP67Operating temperatureFlexible use Stationary position Head $-20 ^{\circ}$ C +80 $^{\circ}$ C $-40 ^{\circ}$ C +80 $^{\circ}$ CContamination rating3Insulation resistance $100  \text{M}\Omega$	Application		Zones with oils and lubricants Robot
Enclosure rating       IP67         Operating temperature       Flexible use $-20  ^{\circ}$ C $+80  ^{\circ}$ C         Stationary position $-40  ^{\circ}$ C $+80  ^{\circ}$ C         Head $-20  ^{\circ}$ C $+80  ^{\circ}$ C         Contamination rating       3         Insulation resistance $100  \text{M}\Omega$	Authorizations		
Operating temperature  Flexible use $-20  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ Stationary position $-40  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ Head $-20  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ Contamination rating $3$ Insulation resistance $100  \text{M}\Omega$	UL File No.		E335179
Flexible use $-20  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ Stationary position $-40  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ Head $-20  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ Contamination rating $3$ Insulation resistance $100  \text{M}\Omega$	Enclosure rating		IP67
Stationary position $-40~^{\circ}\text{C} \dots +80~^{\circ}\text{C}$ Head $-20~^{\circ}\text{C} \dots +80~^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100~\text{M}\Omega$	Operating temperature		
Head $-20  ^{\circ}\text{C} \dots +80  ^{\circ}\text{C}$ Contamination rating 3  Insulation resistance $100  \text{M}\Omega$		Flexible use	-20 °C +80 °C
Contamination rating       3         Insulation resistance       100 MΩ		Stationary position	-40 °C +80 °C
Insulation resistance $100 \text{ M}\Omega$		Head	-20 °C +80 °C
	Contamination rating		3
Overvoltage category III	Insulation resistance		100 ΜΩ
	Overvoltage category		III
<b>Specific insulation resistance</b> $30 \text{ m}\Omega$	Specific insulation resista	nce	30 mΩ

#### Classifications

ECLASS 5.0	19030312
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# YM2A1D-050UV1XLEAX | Sensor/actuator cable

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))



- ① Brown
- ② Blue
- 3 White
- 4 Green
- ⑤ Pink
- 6 Yellow7 Black
- ® Gray
- Red
- 10 Violet
- ① Gray-pink② Red-blue
- White-green
- Brown-green
- ® White-yellow
- ® Yellow-brown
- White-gray

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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.

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