

# YF2A15-100UB5XLEAX





#### Ordering information

Туре	Part no.
YF2A15-100UB5XLEAX	2095619

Other models and accessories → www.sick.com/



#### Detailed technical data

## Technical specifications

Accessory group Accessory family Connecting cables Connection type head A Female connector, M12, 5-pin, straight, A-coded Connecton type head B Fying leads Connector material TPU Connector color Black Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter Cable diameter Cable diameter Cable diameter  Cable diameter Stationary position Preg chain operation Prag chain operation Drag chain operation Seal ov AC Reference voltage Rated impulse voltage  Pissing connectors and cables Finale connector, M12, 5-pin, straight, A-coded Finale cables Finale connection Rick connection Finale connection Fi		
Connection type head A Connection type head B Locking plug connector Connector material TPU Connector color Black Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable 10 m, 5-wire, PUR, halogen-free Jacket toolor Cable diameter Conductor cross-section Shielding Bending radius Fiexble use Stationary position Drag chain operation Drag chain operation  Bending cycles Nominal voltage, cable Reference voltage Fiexble use 125 V AC Fiexble use Reference voltage Fiexble use Reference voltage Fiexble use 125 V AC 125 V DC Fiexble use Reference voltage Fiexble use 125 V AC 125 V DC Fiexble use Fiexble use 125 V AC 125 V DC Fiexble use Fiexble use Reference voltage Fiexble use Reference voltage Fiexble use F	Accessory group	Plug connectors and cables
Connection type head B Locking plug connector  Connector material  TPU  Connector color  Locking nut material  FKM  Tightening torque  Width across flats  Cable  Jacket material  PUR, halogen-free  Black  Cable diameter  Cable diameter  Cable diameter  Cable diameter  Cable diameter  Conductor cross-section  Shielding  Bending radius  Flexible use  Stationary position  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  125 V AC  125 V DC  PUR  Sinckel-plated  FMM  Alack  Alack  Flying leads  Sorew connection  TPU  Screw connection  TPU  Black  Zinc die-cast, nickel-plated  FKM  Alack  FKM  Alack  John S-wire, PUR, halogen-free  Black  10 m, 5-wire, PUR, halogen-free  PUR, halogen-free  Black  10 m, 5-wire, PUR, halogen-free  PUR, halogen-free  13 cube diameter  10 m, 5-wire, PUR, halogen-free  10 m, 5-wire, PUR, hal	Accessory family	Connecting cables
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     10 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     > 5 x cable diameter       > 5 x cable diameter     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Stationary position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cable diameter       Position Drag chain operation     > 10 x cab	Connection type head A	Female connector, M12, 5-pin, straight, A-coded
Connector material Connector color  Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.8 mm Conductor cross-section Shielding Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation Bending voltage, cable  Reference voltage  125 V AC 125 V DC	Connection type head B	Flying leads
Connector color  Locking nut material  Zinc die-cast, nickel-plated  FKM  Tightening torque  Width across flats  Cable  10 m, 5-wire, PUR, halogen-free  Jacket material  Jacket color  Cable diameter  Conductor cross-section  Shielding  Bending radius  Flexible use  Stationary position  Drag chain operation  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage  125 V AC  125 V DC	Locking plug connector	Screw connection
Locking nut material  Seal material  FKM  Tightening torque  Width across flats  Cable  10 m, 5-wire, PUR, halogen-free  Jacket material  Jacket color  Cable diameter  Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending cycles  Nominal voltage, cable  Reference voltage  125 V AC 125 V DC	Connector material	TPU
Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         10 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 > 5 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Prag chain operation Stationary position Stationary Provided (alimeter)         > 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	Connector color	Black
Tightening torque  Width across flats  Cable  10 m, 5-wire, PUR, halogen-free  Jacket material  Jacket color  Black  Cable diameter  Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending vycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  10,000,000  300 V AC  125 V AC 125 V DC	Locking nut material	Zinc die-cast, nickel-plated
Width across flats  Cable  10 m, 5-wire, PUR, halogen-free  Jacket material  PUR, halogen-free  Black  Cable diameter  4.8 mm  Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC 125 V DC	Seal material	FKM
Cable Jacket material PUR, halogen-free PUR, halogen-free Black Cable diameter 4.8 mm Conductor cross-section Shielding Unshielded  Flexible use Stationary position Drag chain operation  Bending cycles Nominal voltage, cable Test voltage Reference voltage  10 m, 5-wire, PUR, halogen-free PUR, haloge	Tightening torque	0.6 Nm
Jacket material Jacket color Black Cable diameter 4.8 mm Conductor cross-section Shielding Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage  125 V AC 125 V DC	Width across flats	13
Jacket color Cable diameter 4.8 mm 0.34 mm² Unshielded  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles Nominal voltage, cable Test voltage Reference voltage  125 V AC 125 V DC	Cable	10 m, 5-wire, PUR, halogen-free
Cable diameter  Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC 125 V DC	Jacket material	PUR, halogen-free
Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC 125 V DC	Jacket color	Black
Shielding Bending radius  Flexible use Stationary position Drag chain operation  Bending cycles  Nominal voltage, cable Test voltage, cable  Reference voltage  125 V AC 125 V DC	Cable diameter	4.8 mm
Bending radius  Flexible use > 10 x cable diameter  Stationary position > 5 x cable diameter  > 10 x cable diameter  10,000,000  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	Conductor cross-section	0.34 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 125 V AC 125 V DC	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	Bending radius	
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	Flexible use	> 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       125 V DC	Stationary position	> 5 x cable diameter
Nominal voltage, cable  Test voltage, cable  2,500 V AC  Reference voltage  125 V AC  125 V DC	Drag chain operation	> 10 x cable diameter
Test voltage, cable  Reference voltage  125 V AC  125 V DC	Bending cycles	10,000,000
Reference voltage  125 V AC  125 V DC	Nominal voltage, cable	300 V AC
125 V AC 125 V DC	Test voltage, cable	2,500 V AC
125 V DC	Reference voltage	
		125 V AC
Rated impulse voltage 1.5 kV		125 V DC
	Rated impulse voltage	1.5 kV

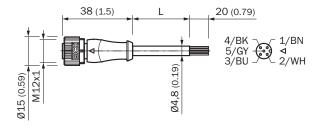
Current loading	4 A
Traversing speed	3 m/s
Travelling distance	10 m
Acceleration	≤ 10 m/s²
Signal type	Sensor/actuator cable
Torsion force	$180^{\circ}$ / 1 m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Zones with oils and lubricants Drag chain operation Robot
Authorizations	CE UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Ambient 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 ΜΩ
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, IEC 60332-2-2 $$

#### Classifications

ECI@ss 5.0	19030312
ECI@ss 5.1.4	19030312
ECI@ss 6.0	27060304
ECI@ss 6.2	27060304
ECI@ss 7.0	27060304
ECI@ss 8.0	27060304
ECI@ss 8.1	27060304
ECI@ss 9.0	27060304
ECI@ss 10.0	27060304
ECI@ss 11.0	27060304
ECI@ss 12.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
ETIM 8.0	EC003249
UNSPSC 16.0901	26121604

# **YF2A15-100UB5XLEAX**

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



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For us, that is "Sensor Intelligence."

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