

# YF2AP8-020PA4XLEAX

Sensor/actuator cable



### Ordering information

Туре	Part no.
YF2AP8-020PA4XLEAX	2111888

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



#### Detailed technical data

#### Technical specifications

Connection type head A         Female connector, M12, 8-pin, straight, A-coded           Connection type head B         Fying leads           Locking plug connector         Screw connection           Connector material         PP           Connector color         Blue           Locking nut material         Stainless steel (V4A/1.4404)           Seal material         FKM           Underly state of the properties of the proper	•	
Connector material         Screw connection           Connector color         Blue           Locking nut material         Stainless steel (V4A/1.4404)           Seal material         FKM           Tightening forque         0.6 Nm           Width across flats         14           Cable         2.0 x 8 wire           Cable diameter         6.3 mm           Conductor cross section         0.25 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         4,000,000           Reference voltage         \$ 30 V DC           Rated impulse voltage         2 A           Current loading         2 A           Traversing speed         3 m/s           Traversing speed         10 m           Acceleration         \$ 10 m/s²           Signal type         Sensor/actuator cable           Torsion force         180 * / 1 m           Torsion cycles         2,000,000	Connection type head A	Female connector, M12, 8-pin, straight, A-coded
Connector color         Blue           Locking nut material         Stainless steel (V4A/1.4404)           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         14           Cable         2 m, 8-wire           Cable diameter         6.3 rmm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position Drag chain operation         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Stationary position         > 10 x cable diameter           Pring cycles         4,000,000           Reference voltage         ≤ 30 V DC           Rated impulse voltage         2 A x           Current loading         2 A           Traversing speed         3 m/s           Traversing speed         3 m/s           Traversing speed         5 lo m/s²           Signal type         Sensor/actuator cable           Torsion force         180 ° / 1 m           Torsion cycles         2,000,000	Connection type head B	Flying leads
Connector color         Blue           Locking nut material         Stainless steel (V4A/1.4404)           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         14           Cable         2 m, 8-wire           Cable diameter         6.3 mm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Flexible use Stationary position Drag chain operation         > 10 x cable diameter           10 x cable diameter         > 10 x cable diameter           Sending cycles         4,000,000           Reference voltage         4,000,000           Rated impulse voltage         0.8 kV           Current loading         2 A           Traversing speed         3 m/s           Travelling distance         10 m           Acceleration         \$ 10 m/s²           Signal type         Sensor/actuator cable           Torsion cycles         2,000,000           Cycles per minutes         35	Locking plug connector	Screw connection
Locking nut material         Stainless steel (V4A/1.4404)           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         14           Cable         2 m, 8-wire           Cable diameter         6.3 mm           Conductor cross section         0.25 mm²           Shelding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation         > 5 x cable diameter           Piczy bending cycles         4,000,000           Reference voltage         ≤ 30 V DC           Rated impulse voltage         0.8 kV           Current loading         2 A           Traversing speed         3 m/s           Travelling distance         10 m           Acceleration         ≤ 10 m/s²           Signal type         Sensor/actuator cable           Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35	Connector material	рр
Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         14           Cable         2 m, 8-wire           Cable diameter         6.3 mm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position Drag chain operation State diameter           Bending cycles         4,000,000           Reference voltage         ≤ 30 V DC           Rated impulse voltage         2 A           Current loading         2 A           Traversing speed         3 m/s           Travelling distance         10 m/s²           Acceleration         ≤ 10 m/s²           Signal type         Sensor/actuator cable           Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35	Connector color	Blue
Tightening torque         0.6 Nm           Width across flats         14           Cable         2 m,8 wire           Cable diameter         6.3 mm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Flexible use Stationary position         > 10 x cable diameter           5 x cable diameter           Drag chain operation         > 10 x cable diameter           5 x cable diameter           Drag chain operation         > 10 x cable diameter           Seference voltage         ≤ 30 V DC           Rated impulse voltage         0.8 kV           Current loading         2 A           Traversing speed         3 m/s           Travelling distance         10 m           Acceleration         ≤ 10 m/s²           Signal type         Sensor/actuator cable           Torsion force         180* / 1 m           Torsion cycles         2,000,000	Locking nut material	Stainless steel (V4A/1.4404)
Width across flats         14           Cable         2 m, 8-wire           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Flexible use Stationary position Drag chain operation         > 5 x cable diameter           Drag chain operation         > 10 x cable diameter           Bending cycles         4,000,000           Reference voltage         ≤ 30 V DC           Rated impulse voltage         0.8 kV           Current loading         2 A           Traversing speed         3 m/s           Travelling distance         10 m           Acceleration         ≤ 10 m/s²           Signal type         Sensor/actuator cable           Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35	Seal material	FKM
Cable         2 m, 8-wire           Cable diameter         6.3 mm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation         > 5 x cable diameter           Drag chain operation         > 10 x cable diameter           Bending cycles         4,000,000           Reference voltage         ≤ 30 V DC           Rated impulse voltage         0.8 kV           Current loading         2 A           Traversing speed         3 m/s           Travelling distance         10 m           Acceleration         ≤ 10 m/s²           Signal type         Sensor/actuator cable           Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35	Tightening torque	0.6 Nm
Cable diameter         6.3 mm           Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation Signal spect Signal spect Signal spect Signal type Sensor/actuator cable Signal type Sensor/actuator cable Sensor/actuator cable Sensor cycles Sensor cycles Sensor cycles Sensor spect Signal spect Sensor cycles Sensor spect Sensor spect Sensor cycles Sensor spect Sensor spect Sensor cycles Sensor cycles Sensor spect Sensor spect Sensor cycles Sensor spect Sensor spect Sensor cycles Sensor cycles Sensor spect Sensor spect Sensor cycles Sensor cycles Sensor spect Sensor spect Sensor cycles Sensor spect	Width across flats	14
Conductor cross section         0.25 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position Drag chain operation         > 10 x cable diameter           Bending cycles         4,000,000           Reference voltage         ≤ 30 V DC           Rated impulse voltage         0.8 kV           Current loading         2 A           Traversing speed         3 m/s           Travelling distance         10 m           Acceleration         ≤ 10 m/s²           Signal type         Sensor/actuator cable           Torsion cycles         2,000,000           Cycles per minutes         35	Cable	2 m, 8-wire
Shielding Unshielded   Bending radius > 10 x cable diameter   Stationary position Drag chain operation > 5 x cable diameter   Bending cycles 4,000,000   Reference voltage ≤ 30 V DC   Rated impulse voltage 0.8 kV   Current loading 2 A   Traversing speed 3 m/s   Travelling distance 10 m   Acceleration ≤ 10 m/s²   Signal type Sensor/actuator cable   Torsion force 180° / 1 m   Torsion cycles 2,000,000   Cycles per minutes 35	Cable diameter	6.3 mm
Bending radius         Flexible use Stationary position Drag chain operation       > 10 x cable diameter         Bending cycles       4,000,000         Reference voltage       ≤ 30 V DC         Rated impulse voltage       0.8 kV         Current loading       2 A         Traversing speed       3 m/s         Travelling distance       10 m         Acceleration       ≤ 10 m/s²         Signal type       Sensor/actuator cable         Torsion force       180° / 1 m         Torsion cycles       2,000,000         Cycles per minutes       35	Conductor cross section	0.25 mm <sup>2</sup>
Flexible use Stationary position  Drag chain operation  Bending cycles  Reference voltage  \$\leq 30 \times DC  Rated impulse voltage  \$\leq 30 \times DC  Current loading  Traversing speed  \$\leq 10 \times \leq 10 \ti	Shielding	Unshielded
Stationary position       > 5 x cable diameter         Drag chain operation       > 10 x cable diameter         Bending cycles       4,000,000         Reference voltage       ≤ 30 V DC         Rated impulse voltage       0.8 kV         Current loading       2 A         Traversing speed       3 m/s         Travelling distance       10 m         Acceleration       ≤ 10 m/s²         Signal type       Sensor/actuator cable         Torsion force       180° / 1 m         Torsion cycles       2,000,000         Cycles per minutes       35	Bending radius	
Bending cycles 4,000,000   Reference voltage ≤ 30 V DC   Rated impulse voltage 0.8 kV   Current loading 2 A   Traversing speed 3 m/s   Travelling distance 10 m   Acceleration ≤ 10 m/s²   Signal type Sensor/actuator cable   Torsion force 180° / 1 m   Torsion cycles 2,000,000   Cycles per minutes 35	Flexible use	> 10 x cable diameter
Bending cycles 4,000,000   Reference voltage ≤ 30 V DC   Rated impulse voltage 0.8 kV   Current loading 2 A   Traversing speed 3 m/s   Travelling distance 10 m   Acceleration ≤ 10 m/s²   Signal type Sensor/actuator cable   Torsion force 180° / 1 m   Torsion cycles 2,000,000   Cycles per minutes 35	Stationary position	> 5 x cable diameter
Reference voltage       ≤ 30 V DC         Rated impulse voltage       0.8 kV         Current loading       2 A         Traversing speed       3 m/s         Travelling distance       10 m         Acceleration       ≤ 10 m/s²         Signal type       Sensor/actuator cable         Torsion force       180° / 1 m         Torsion cycles       2,000,000         Cycles per minutes       35	Drag chain operation	> 10 x cable diameter
Rated impulse voltage 0.8 kV   Current loading 2 A   Traversing speed 3 m/s   Travelling distance 10 m   Acceleration ≤ 10 m/s²   Signal type Sensor/actuator cable   Torsion force 180° / 1 m   Torsion cycles 2,000,000   Cycles per minutes 35	Bending cycles	4,000,000
Rated impulse voltage       0.8 kV         Current loading       2 A         Traversing speed       3 m/s         Travelling distance       10 m         Acceleration       ≤ 10 m/s²         Signal type       Sensor/actuator cable         Torsion force       180° / 1 m         Torsion cycles       2,000,000         Cycles per minutes       35	Reference voltage	
Current loading 2 A   Traversing speed 3 m/s   Travelling distance 10 m   Acceleration ≤ 10 m/s²   Signal type Sensor/actuator cable   Torsion force 180° / 1 m   Torsion cycles 2,000,000   Cycles per minutes 35		≤ 30 V DC
Traversing speed       3 m/s         Travelling distance       10 m         Acceleration       ≤ 10 m/s²         Signal type       Sensor/actuator cable         Torsion force       180°/1 m         Torsion cycles       2,000,000         Cycles per minutes       35	Rated impulse voltage	0.8 kV
Travelling distance       10 m         Acceleration       ≤ 10 m/s²         Signal type       Sensor/actuator cable         Torsion force       180°/1 m         Torsion cycles       2,000,000         Cycles per minutes       35	Current loading	2 A
Acceleration≤ 10 m/s²Signal typeSensor/actuator cableTorsion force $180^{\circ}/1 \text{ m}$ Torsion cycles $2,000,000$ Cycles per minutes $35$	Traversing speed	3 m/s
Signal type Sensor/actuator cable  Torsion force 180°/1 m  Torsion cycles 2,000,000  Cycles per minutes 35	Travelling distance	10 m
Torsion force 180°/1 m  Torsion cycles 2,000,000  Cycles per minutes 35	Acceleration	≤ 10 m/s²
Torsion cycles 2,000,000  Cycles per minutes 35	Signal type	Sensor/actuator cable
Cycles per minutes 35	Torsion force	180°/1 m
	Torsion cycles	2,000,000
Application Drag chain operation	Cycles per minutes	35
	Application	Drag chain operation

	Robot
Authorizations	Ecolab CE UL
UL File No.	E335179
Enclosure rating	IP65/ IP68/ IP69K
Operating temperature	
Flexible use	-25 °C +105 °C
Stationary position	-40 °C +105 °C
Drag chain operation	-25 °C +105 °C
Head	-25 °C +85 °C
Contamination rating	3
Insulation resistance	100 ΜΩ
Overvoltage category	III
Specific insulation resistance	30 mΩ

#### 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

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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."

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