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Product data sheet



# YM2D24-050PN1XLEAX

SICK
Sensor Intelligence.

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# YM2D24-050PN1XLEAX



## Ordering information

| Type | Part no. |
|---|---|
| YM2D24-050PN1XLEAX | 2106172 |

Other models and accessories → www.sick.com/

## Detailed technical data

### Technical specifications

| | |
|---|---|
| **Accessory group** | Plug connectors and cables |
| **Accessory family** | Connecting cables |
| **Connection type head A** | Male connector, M12, 4-pin, straight, D-coded |
| **Connection type head B** | Flying leads |
| **Locking plug connector** | Screw connection |
| **Connector material** | TPU |
| **Connector color** | Black |
| **Locking nut material** | Zinc die-cast, nickel-plated |
| **Tightening torque** | 0.6 Nm |
| **Width across flats** | 13 |
| **Cable** | 5 m, 4-wire, PUR, halogen-free |
| **Jacket material** | PUR, halogen-free |
| **Jacket color** | Green |
| **Cable diameter** | 6.7 mm |
| **Shielding** | Shielded |
| **Bending radius** | |
| Flexible use | > 12 x cable diameter |
| Stationary position | > 5 x cable diameter |
| Drag chain operation | > 12 x cable diameter |
| **Bending cycles** | 3,000,000 |
| **Reference voltage** | ≤ 60 V DC |
| **Rated impulse voltage** | 1.5 kV |
| **Current loading** | 4 A |
| **Traversing speed** | 3.3 m/s |
| **Travelling distance** | 5 m |
| **Acceleration** | ≤ 2 m/s² |
| **Signal type** | Ethernet, PROFINET |
| **Transmission characteristics** | CAT5e |
| **Data transmission rate** | ≤ 0.1 Gbit/s |

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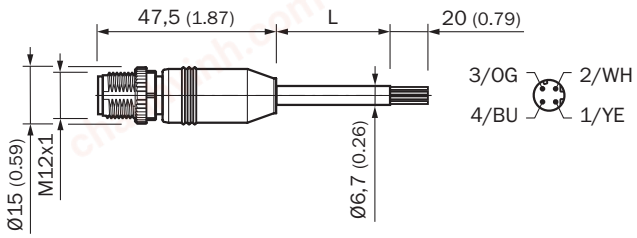


| | |
|---|---|
| **Application** | Drag chain operation<br>Zones with oils and lubricants<br>Weld-spark resistant |
| **Authorizations** | CE<br>UL |
| **Enclosure rating** | IP65 / IP66K / IP67 |
| **Ambient operating temperature** | |
| Flexible use | –30 °C ... +70 °C |
| Stationary position | –40 °C ... +80 °C |
| Drag chain operation | –30 °C ... +70 °C |
| Head | –25 °C ... +85 °C |
| **Contamination rating** | 3 |
| **Insulation resistance** | > 100 MΩ |
| **Overvoltage category** | III |
| **Specific insulation resistance** | < 30 mΩ |
| **Thermal resistance, cable** | Flame retardant according to UL 1581 Section 1060 (FT1), Section 1061 (cable flame), Section 1080 (VW-1) / IEC 60332-1-2 |

## Classifications

| | |
|---|---|
| **ECl@ss 5.0** | 27061800 |
| **ECl@ss 5.1.4** | 27061801 |
| **ECl@ss 6.0** | 27061801 |
| **ECl@ss 6.2** | 27061801 |
| **ECl@ss 7.0** | 27061801 |
| **ECl@ss 8.0** | 27061801 |
| **ECl@ss 8.1** | 27061801 |
| **ECl@ss 9.0** | 27061801 |
| **ECl@ss 10.0** | 27061801 |
| **ECl@ss 11.0** | 27061801 |
| **ETIM 5.0** | EC002599 |
| **ETIM 6.0** | EC002599 |
| **ETIM 7.0** | EC002599 |

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



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# 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