



## Y8B4AA2-LXXXUGA025

Passive distribution boxes

CONNECTORS AND CABLES

**SICK**  
Sensor Intelligence.



Ordering information

| Type               | part no. |
|--------------------|----------|
| Y8B4AA2-LXXXUGA025 | 2120661  |

Other models and accessories → [www.sick.com/Passive\\_distribution\\_boxes](http://www.sick.com/Passive_distribution_boxes)



Detailed technical data

Technical specifications

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| Switching output          | NPN                                                  |
| Shielding                 | Unshielded                                           |
| Number of slots           | 10                                                   |
| Slot connection type      | M8, 4-pin, A-coded, female connector                 |
| Root port connection type | Flying leads                                         |
| Connecting cable          | 2.5 m, 22-wire, PUR, halogen-free                    |
| Cable diameter            | 11.3 mm                                              |
| Cable color               | Gray                                                 |
| Conductor cross section   | 2 x 0.75 mm <sup>2</sup> + 20 x 0.34 mm <sup>2</sup> |
| Traversing speed          | 2 m/s                                                |
| Travelling distance       | 5 m                                                  |
| Acceleration              | ≤ 5 m/s <sup>2</sup>                                 |
| Bending radius            |                                                      |
| Flexible use              | > 10 x cable diameter                                |
| Stationary position       | > 10 x cable diameter                                |
| Drag chain operation      | > 10 x cable diameter                                |
| Bending cycles            | ≤ 5,000,000                                          |
| Tightening torque         |                                                      |
| Slots                     | 0.4 Nm                                               |
| Display LED               |                                                      |
| Slots                     | 2 x per socket                                       |
| Root port                 | 1x per distributor                                   |
| Reference voltage         | ≤ 24 V DC                                            |
| Current loading           | 10 A                                                 |
| Overvoltage category      | III                                                  |
| Operating temperature     |                                                      |
| Flexible use              | -5 °C ... +80 °C                                     |
| Stationary position       | -40 °C ... +80 °C                                    |

|                  |                      |                      |
|------------------|----------------------|----------------------|
|                  | Drag chain operation | -5 °C ... +60 °C     |
|                  | Distributor box      | -20 °C ... +72 °C    |
| Enclosure rating |                      | IP65/ IP67           |
| UL File No.      |                      | E238799              |
| Authorizations   |                      | UL<br>CE             |
| Items supplied   |                      | 10 x labeling plates |

Classifications

|                |          |
|----------------|----------|
| ECLASS 5.0     | 27279201 |
| ECLASS 5.1.4   | 27279201 |
| ECLASS 6.0     | 27279201 |
| ECLASS 6.2     | 27279201 |
| ECLASS 7.0     | 27279201 |
| ECLASS 8.0     | 27279201 |
| ECLASS 8.1     | 27279201 |
| ECLASS 9.0     | 27440108 |
| ECLASS 10.0    | 27440108 |
| ECLASS 11.0    | 27440108 |
| ECLASS 12.0    | 27440108 |
| ETIM 5.0       | EC002585 |
| ETIM 6.0       | EC002585 |
| ETIM 7.0       | EC002585 |
| ETIM 8.0       | EC002585 |
| UNSPSC 16.0901 | 31163032 |

Certificates

|                              |   |
|------------------------------|---|
| EU declaration of conformity | ✓ |
| China-RoHS                   | ✓ |
| cULus certificate            | ✓ |



## Recommended accessories

Other models and accessories → [www.sick.com/Passive\\_distribution\\_boxes](http://www.sick.com/Passive_distribution_boxes)

|                                                                                     | Brief description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Type               | part no. |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| device protection and care                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |          |
|    | <ul style="list-style-type: none"> <li><b>Description:</b> Protective cap for M8 socket or unused ports</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                            | DOS-08SK           | 5340762  |
| connectors and cables                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |          |
|    | <ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M8, 4-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M8, 4-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>   | YF8U14-050UA3M8U14 | 2096348  |
|    | <ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M8, 4-pin, A-coded</li> <li><b>Connection type head B:</b> Female connector, M8, 3-pin, A-coded</li> <li><b>Connection type head C:</b> Female connector, M8, 3-pin, A-coded</li> <li><b>Cable:</b> 0.3 m, 3-wire, PUR, halogen-free</li> <li><b>Description:</b> Unshielded</li> </ul>                                                                                                                                 | YM8U14-C30UA1FY8A3 | 2122298  |
|    | <ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M8, 4-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M8, 4-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 1 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>   | YF8U14-010UA3M8U14 | 2143896  |
|   | <ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M8, 4-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M8, 4-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>  | YF8U14-100UA3M8U14 | 2145840  |
|  | <ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M8, 4-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M8, 4-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 0.3 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul> | YF8U14-C30UA3M8U14 | 2126078  |

## 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](http://www.sick.com)