



# Y8B4AA2-LXXXUGA025

Passive distribution boxes

PLUG 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

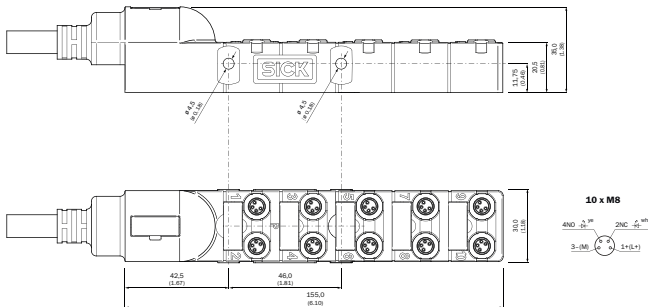
<b>Shielding</b>	Unshielded								
<b>Slot connection type</b>	M8, 4-pin, A-coded, female connector								
<b>Root port connection type</b>	Flying leads								
<b>Connecting cable</b>	2.5 m, 22-wire, PUR, halogen-free								
<b>Cable diameter</b>	11.3 mm								
<b>Cable color</b>	Gray								
<b>Conductor cross section</b>	2 x 0.75 mm <sup>2</sup> + 20 x 0.34 mm <sup>2</sup>								
<b>Traversing speed</b>	2 m/s								
<b>Travelling distance</b>	5 m								
<b>Acceleration</b>	≤ 5 m/s <sup>2</sup>								
<b>Bending radius</b>	<table border="0"> <tr> <td>Flexible use</td> <td>&gt; 10 x cable diameter</td> </tr> <tr> <td>Stationary position</td> <td>&gt; 10 x cable diameter</td> </tr> <tr> <td>Drag chain operation</td> <td>&gt; 10 x cable diameter</td> </tr> </table>	Flexible use	> 10 x cable diameter	Stationary position	> 10 x cable diameter	Drag chain operation	> 10 x cable diameter		
Flexible use	> 10 x cable diameter								
Stationary position	> 10 x cable diameter								
Drag chain operation	> 10 x cable diameter								
<b>Bending cycles</b>	≤ 5,000,000								
<b>Tightening torque</b>	<table border="0"> <tr> <td>Slots</td> <td>0.4 Nm</td> </tr> </table>	Slots	0.4 Nm						
Slots	0.4 Nm								
<b>Display LED</b>	<table border="0"> <tr> <td>Slots</td> <td>2 x per socket</td> </tr> <tr> <td>Root port</td> <td>1x per distributor</td> </tr> </table>	Slots	2 x per socket	Root port	1x per distributor				
Slots	2 x per socket								
Root port	1x per distributor								
<b>Reference voltage</b>	≤ 24 V DC								
<b>Current loading</b>	10 A								
<b>Overvoltage category</b>	III								
<b>Operating temperature</b>	<table border="0"> <tr> <td>Flexible use</td> <td>-5 °C ... +80 °C</td> </tr> <tr> <td>Stationary position</td> <td>-40 °C ... +80 °C</td> </tr> <tr> <td>Drag chain operation</td> <td>-5 °C ... +60 °C</td> </tr> <tr> <td>Distributor box</td> <td>-20 °C ... +72 °C</td> </tr> </table>	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
Flexible use	-5 °C ... +80 °C								
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Distributor box	-20 °C ... +72 °C								

<b>Enclosure rating</b>	IP65/ IP67
<b>UL File No.</b>	E238799
<b>Authorizations</b>	UL CE
<b>Items supplied</b>	10 x labeling plates

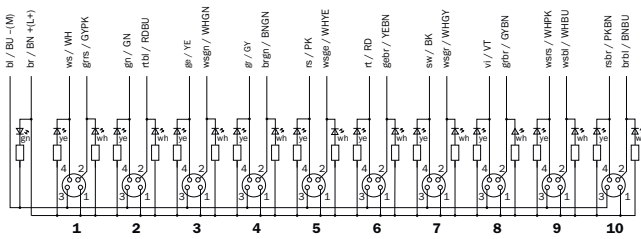
### Classifications

<b>ECLASS 5.0</b>	27279201
<b>ECLASS 5.1.4</b>	27279201
<b>ECLASS 6.0</b>	27279201
<b>ECLASS 6.2</b>	27279201
<b>ECLASS 7.0</b>	27279201
<b>ECLASS 8.0</b>	27279201
<b>ECLASS 8.1</b>	27279201
<b>ECLASS 9.0</b>	27440108
<b>ECLASS 10.0</b>	27440108
<b>ECLASS 11.0</b>	27440108
<b>ECLASS 12.0</b>	27440108
<b>ETIM 5.0</b>	EC002585
<b>ETIM 6.0</b>	EC002585
<b>ETIM 7.0</b>	EC002585
<b>ETIM 8.0</b>	EC002585
<b>UNSPSC 16.0901</b>	31163032

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






### Connection diagram



### 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 (mechanical)			
	1 piece, Protective cap for M8 socket or unused ports	DOS-08SK	5340762
Distributors			
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M8, 3-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> Male connector, M8, 4-pin, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 0.3 m, 3-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Zones with oils and lubricants</li> </ul>	YM8U14-C30UA1FY8A3	2122298
Others			
	<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> Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF8U14-050UA3M8U14	2096348

## 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)