M8 and M12 Sensor Connectors

The XS_-L family provides reliable operation in standard factory environments. The M8 and M12 sensors are designed to match the specifications of OMRON standard sensors and provide excellent value for money.

- M8 and M12 brass female connectors
- 3-wire and 4-wire PVC cables
- Ideal specification match for sensor usage in standard factory environments

### Ordering Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Cable material</th>
<th>Features</th>
<th>Shape</th>
<th>Cable length</th>
<th>Order code</th>
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<td>M8</td>
<td>3-wire</td>
<td>PVC</td>
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<td>XS3F-LM8PVC3S2M</td>
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### Specifications

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<th>M8</th>
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<tr>
<td>Wire size</td>
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<tr>
<td>Rated current</td>
<td>0.5 A</td>
<td>0.8 A</td>
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<tr>
<td>Rated voltage</td>
<td>30 VDC</td>
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<td>Degree of protection</td>
<td>IP67 (IEC 60529)</td>
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<td>Ambient temperature</td>
<td>-10°C to 65°C</td>
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### Pin arrangement

- **M8 3-wire**: 1 = brown, 2 = white, 3 = blue, 4 = black
- **M8 4-wire**: 1 = brown, 2 = white, 3 = blue, 4 = black
- **M12 3-wire**: 1 = brown, 2 = n.c., 3 = blue, 4 = black
- **M12 4-wire**: 1 = brown, 2 = white, 3 = blue, 4 = black
Dimensions

XS3F
M8 Screw-on cable connectors

3-wire
Straight connectors

L-shaped connectors

4-wire
Straight connectors

L-shaped connectors

Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.
XS2F M12 Screw-on cable connectors

3-wire
Straight connectors

L-shaped connectors

4-wire
Straight connectors

L-shaped connectors
### Warranty and Limitations of Liability

**WARRANTY**

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

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### Application Considerations

**SUITABILITY FOR USE**

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

**PROGRAMMABLE PRODUCTS**

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

### Disclaimers

**CHANGE IN SPECIFICATIONS**

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

**DIMENSIONS AND WEIGHTS**

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

**PERFORMANCE DATA**

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON’s test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

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Cat. No. E84E-EN-01A  In the interest of product improvement, specifications are subject to change without notice.

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