# Vehicle-Mounted Square Proximity Switches 

Model FL2R-V | Proximity Switch for Vehicle Mounting with High Surge Resistance

$\square$ ORDER GUIDE

- DC2-wire type

| Actuation method | Appearance | Sensing distance | Sensing face | Output operation mode | Catalog listing |
| :---: | :---: | :---: | :---: | :---: | :---: |
| High-frequency oscillation |  |  | Top | N.O. | FL2R-12J6HV |
|  |  | 12 mm |  | N.C. | FL2R-12K6HV |
|  |  |  | Side | N.O. | FL2R-12J6SV |
|  |  |  |  | N.C. | FL2R-12K6SV |

## $\square$ SPECIFICATIONS

-DC2-wire type


WIRING DIAGRAM


The load can be connected to either side of the power supply.

SENSING AREA (typical)
-FL2R-12 $\square \square \square V$



## EXTERNAL DIMENSIONS

FL2R-12 $\square$ HV



Vinyl-insulated cord (oil-resistant: $0.5 \mathrm{~mm}^{2}, 20 / 0.18$ dia., 3-core) 5.7 mm dia.


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## PRECAUTIONS

## 1. Mounting

Tighten the screws to the torque shown below.

| Catalog listing | Allowable tightening <br> torque (N-m) | Recommended screw <br> diameter |
| :---: | :---: | :---: |
| FL2R-12 $\square \square \square \mathbf{V}$ | 0.5 | M 4 |

## 2. Influence of surrounding metal

Metal other than the object surrounding the switch may influence operating characteristics. Maintain the following space between the switch and surrounding metal:


Note: Shaded areas indicate surrounding metal other than the target object.

| Catalog listing | A (mm) | B (mm) |
| :---: | :---: | :---: |
| FL2R-12 $\square \square$ HV | 50 | 25 |
| FL2R-12 $\square \square$ SV | 25 | 50 |

## 3. Mutual interference prevention

When mounting proximity switches in parallel or facing each other, mutual interference may cause the switch to malfunction. Maintain at least the spaces indicated in the figures above.


Side sensing type


| Catalog listing | A (mm) | B (mm) |
| :---: | :---: | :---: |
| FL2R-12 $\square \square \square \mathbf{V}$ | 120 | 120 |

## 4. Operation at power ON

After the power is turned ON, it takes 40 ms or less until the proximity switch is ready for sensing.
When the load and the proximity switch use different power supplies, be sure to turn the proximity switch ON before turning the load ON.

## 5. Minimum cord bending radius ( $R$ )

The minimum bending radius $(R)$ of the cord is 3 times cord diameter, take care not to excessively bend the cord beyond this radius.
Also, do not excessively bend the cord within 30 mm of the cord lead-in port.

Before use, thoroughly read the "Precautions for use" and "Precautions for handling" in the Technical Guide on pages $\mathbf{C}-095$ to $\mathbf{C - 1 0 1}$ as well as the instruction manual and product specification for this switch.

Please read "Terms and Conditions" from the following URL before ordering and use.
https://www.azbil.com/products/factory/order.html without the prior written permission of Azbil Corporation.

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