PSRswitch – The RFID non-contact safety switch for intelligent safety door monitoring

The PSRswitch is an RFID coded, non-contact safety switch with a compact design. Thanks to the integrated RFID transponder technology and intelligence, you receive maximum protection against tampering and outstanding safety in accordance with EN ISO 14119. With compatible evaluation units and SAC cabling, Phoenix Contact provides a cost-effective, complete solution for flexible safety door and position monitoring for the digital factory.

Your advantages

- Safe series connection of up to 30 sensors
- Comprehensive IO-link diagnostic information when used with the PSR-MC42 safety relay
- Maximum protection against tampering, thanks to three RFID encoding levels
- Consistent M12 connection technology for convenient installation and up to IP67 degree of protection
- Safe, cost-effective complete solution for the digital factory
Encoding Levels

The sensor is available in three encoding levels: Unicode, Multicode, and Fixcode

<table>
<thead>
<tr>
<th>Encoding Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unicode</strong></td>
<td>The sensor accepts one actuator. The actuator is taught by the user during commissioning. An unlimited number of additional actuators can be taught in one after another. The sensors remembers the previous actuator taught in and blocks it from being used.</td>
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<tr>
<td><strong>Multicode</strong></td>
<td>The sensor accepts all actuators. It is not necessary to train them during commissioning.</td>
</tr>
<tr>
<td><strong>Fixcode</strong></td>
<td>The sensor accepts a single actuator. This actuator is taught by the user during commissioning. It is not possible to teach further actuators.</td>
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</table>

Smart diagnostics for the networked factory

The complete Phoenix Contact safety switch system comprises an evaluation unit and the PSRswitch safety switches. The PSR-MC42 evaluation unit can be used as an IO-Link gateway, and can be combined with up to 30 safety switches connected in series.

With the integrated diagnostic channel, all status information (non-safety-relevant) on the connected safety switches is captured centrally at the machine control system – even with series connection.