Overview

The PS116 is an extremely versatile yet compact and robust limit switch for determining the position of movable machine components or machine guards that can be moved laterally or rotated.

For ease of installation, these limit switches are prewired with either a M12 connector or a 2 meter cable lead, on the bottom or side of the housing. Since the housing is symmetrical, the switch can be mounted with the cable or connector to the left or right. The PS116 is available with 10 actuator elements - plungers, roller levers, and a rod lever - which are field adjustable, to be set in one of 8 positions (45° steps) to meet application requirements.

The PS116 offers 2 and 3 contact options, in several configurations. The contacts are either snap action (Z) with optional latching (manual reset), or slow action (T) with overlapping, simultaneous or staggered contacts. All normally closed contacts are positive break, according to IEC 60947-5-1.

The compact body design of the PS116 series measures only 1.25" x 2.25" x 0.65", perfect for use in confined spaces to monitor the position or presence of moving parts, work pieces or conveyed materials. The housings are die-cast zinc and heavy duty thermoplastic and are dust tight and sealed to withstand strong water jets (IP66) and submersion in water (IP67), suitable for use in all industrial environments.

In conjunction with an appropriate safety controller, a single position switch can be used up to PLd, while using two can achieve PLe, according to ISO 13849-1.

Elevator industry
The PS116 limit switch also fulfills the requirements for use in elevators according to EN 81-1, because all available switching elements have a contact opening of 2 x 2 mm.

Actuator Rotation and Replacement
The housing is symmetrical, so the switch can be mounted with the connector or cable on the left or right side. The actuator elements can be adjusted in the field: rotated to one of 8 positions - in 45° steps relative to the body; or replaced with other elements. (Adjustment tool required)

<table>
<thead>
<tr>
<th>Actuator Element *</th>
<th>Wiring Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-S200</td>
<td>M12 connector</td>
</tr>
<tr>
<td>PS-S210</td>
<td>2 m prewired cable</td>
</tr>
<tr>
<td>PS-K200</td>
<td>Side</td>
</tr>
<tr>
<td>PS-K210</td>
<td>Side</td>
</tr>
<tr>
<td>PS-K230</td>
<td>Side</td>
</tr>
<tr>
<td>PS-K240</td>
<td>Side</td>
</tr>
<tr>
<td>PS-H200</td>
<td>M12 connector</td>
</tr>
<tr>
<td>PS-N200</td>
<td>2 m prewired cable</td>
</tr>
<tr>
<td>PS-J200</td>
<td>Side</td>
</tr>
</tbody>
</table>

* Actuation elements can be ordered separately
** not appropriate for use in safety applications

Applications
- Elevators
- Material handling systems
- Packaging machinery
- Chemical processing equipment
- Folding or brake presses
- Filter presses
- Punching machines
- Printing machines
- Injection molding
- Palletizers
- Conveyor equipment
- Position detection

Available Literature
- PS116 Brochure 10 pages

Contact
Schmersal USA
15 Skyline Drive
Hawthorne, NY 10532
Tel: 914-347-4775
Fax: 914-347-1567
E-mail: salesusa@schmersal.com

Schmersal Canada
29 Centennial Road, Unit 1
Orangeville ON L9W 1R1
Tel: 519-307-7540
Fax: 519-307-7543
E-mail: salescanada@schmersal.com