

CE

c(UL)us

Features



Four connection options: Prewired cable from bottom or side M12 connector from bottom or side

Actuator element options:

The PS116 offers a wide variety of actuator elements, which can be ordered separately.



PS-H200 PS-N200 PS-J200

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 fulfils 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)



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

S SCHMERSAL

PS116 Brochure 10 pages

Ordering Details

PS116-0-2-3

① Contact Action/Configuration Snap Action Z02 2 NC 2 NO, latching Z02R 1 NO & 1 NC Z11 Z11R 1 NO & 1 NC, latching 1 NO & 2 NC Z12 Z12R 1 NO & 2 NC, latching Slow Action T02 2 NC 2 NC, staggered T02H 1 NO & 1 NC T11 T11UE 1 NO & 1 NC, overlapping T20 2 NO 3 3 NC T03 1 NO & 2 NC T12 2 NO & 1 NC T21

- ② Wiring Connection L200 2 m prewired cable, bottom
 - LR200 2 m prewired cable, side
 - M12 connector, bottom ST

Angle roller lever

- STR M12 connector, side
- ③ Actuation Element *

K230

- S200 Plunger R200 Roller Plunger Offset roller lever K200 K210 Offset roller lever
- Angle roller lever K240 K250 Angle roller lever H200 Roller lever N200
- Roller lever J200 Rod lever **

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

Accessories / Connector cables ACC-PS116-1 Adjustment tool

M12 connector	
103006760	5 m cable (4 pole)
101209964	5 m cable (8 pole)
101209960	10 m cable (8 pole)

Compatible Safety Controllers SRB-E-201LC SRB-E-322ST

SRB-E-201ST SRB-E-402ST SRB-E-301ST SRB-301MC SRB-E-212ST

Bold part numbers are regularly stocked

Contact

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