



Ferrites and accessories

P cores halves for proximity switches (PS cores)
General information

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Inductive proximity switches can be used as noncontacting motion detectors and output indicators. Possible applications:

- Detection of the final position on conveyor belts
- Counters at rotating parts
- Contactless detection of pointer position of pointer-type measuring and control instruments

The advantages of proximity switches are bounceless switching, no mechanical wear, insensitivity to contamination and detection of metallic parts only.

We supply P core halves/PS cores with diameters ranging from 7.35 to 150 mm for inductive proximity switches. Their dimensions are matched to standardized switches. Maximum operating distances can thus be achieved for the individual P core sizes. The SIFERRIT material N22 is particularly suitable for the frequency range from 0.1 to 0.8 MHz. The material M33 is additionally available for higher frequencies (core types with 5.6 to 14.0 mm diameter).

Thermoplastic coil formers can be supplied for most of the core types. This material permits an operating temperature range of -60 to $+120$ °C. Consequently, temperatures of up to $+120$ °C are also permissible during encapsulation.