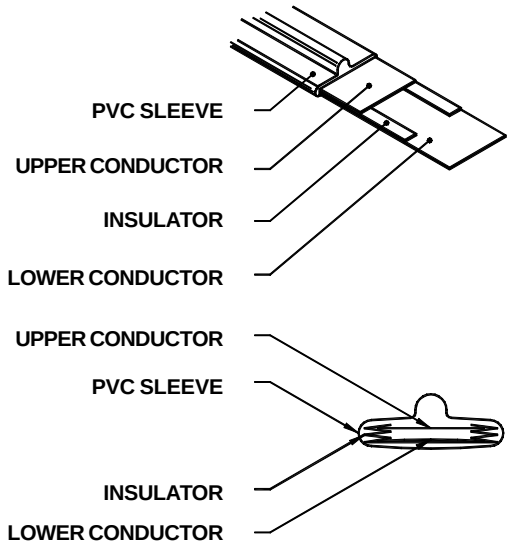
Tapeswitch Technology

Information Sheet



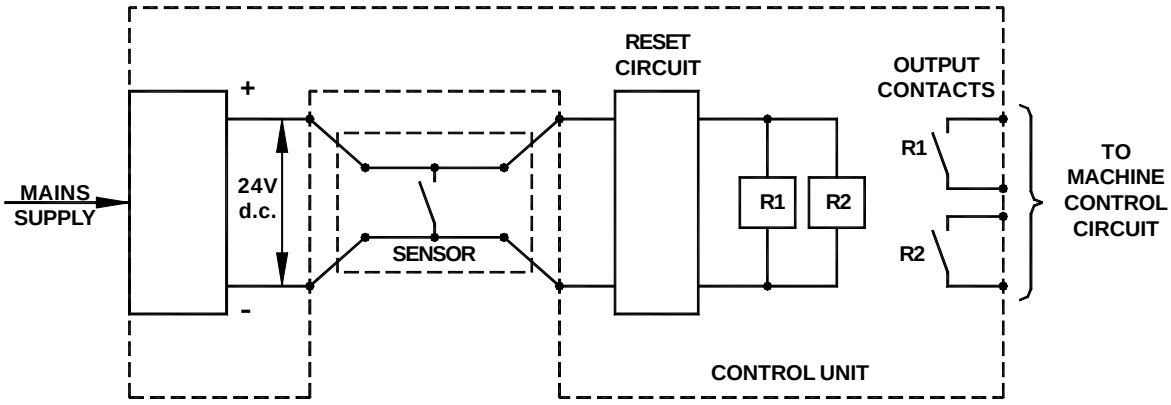
Features

- Simple, reliable technology
- Wide range of models
- Easy installation
- TÜV approved (fail-safe models)
- Long life

Tapeswitch technology is based on a proven switching principle that comprises a continuous length of normally open switch. The switch comprises two copper-plated steel conductors held apart at the sides by an insulating strip. When pressure is applied at any point along the length, the two conductors are forced together in the centre, closing the switch. Tapeswitch uses this reliable technology in the manufacture of a range of different sensors: safety mats, sensing edges, ribbon switches, control devices.

Fail-safe wiring principle

With fail-safe wiring, the switch sensor has a pair of connection wires at each end. A current limited power supply is taken from the control unit where it supplies power to the output relays. The output contacts of these relays are only closed when the output relays are energised. If the sensor is actuated, the supply to the relays is short-circuited causing them to de-energise. In addition, if the power supply to the output relays is interrupted or shorted out by a fault in the cabling, internal wiring or switching elements, power to the output relays will be lost, the relays will de-energise and the contacts will open. All Tapeswitch-based products that are designed for safety applications have fail-safe wiring as standard.



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