

Pneumatic safety edge system

Testing

Principle

The pushing together of the rubber profile generates a pressure impulse, which is directed via an air hose to the dynamic pressure-wave switch (DW). This one-sided increase in pressure acts on the membrane. This opens the contact between the contact screw and the membrane (opening principle). Whenever the rubber profile is activated during access, a re-open command is generated and the door moves to final open position.

A potential-free limit switch actuates just before the bottom end-point is reached (approx. 5 cm) to activate the test phase. The safety device is disabled during the test phase.

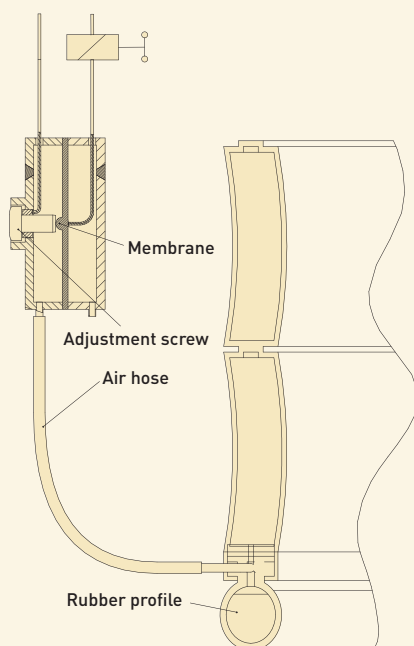
When the door sets on the ground, a pneumatic test impulse must be generated. If the test result is positive, the door can then move to its self-hold OPEN or CLOSE position. If a malfunction occurs, the door can only be operated in hold-to-run mode. Opening can take place in self-hold mode again once any possibility of hazardous door movements has been eliminated.



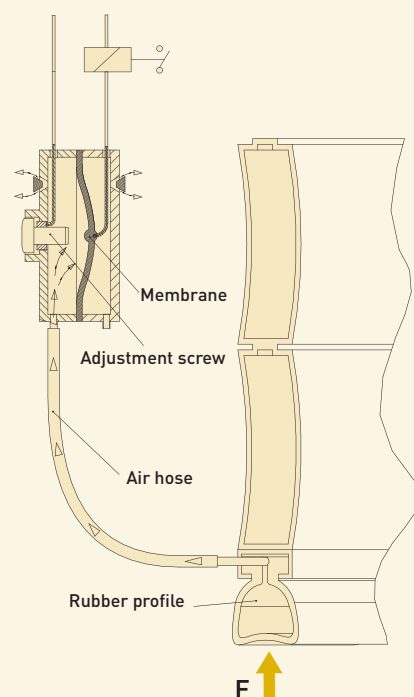
The signal will be recognised directly in door controls TS 970/TS 971/TS 981.
The design of this pneumatic safety edge system makes it especially suitable for DIY assembling

Principle

Safety edge not activated



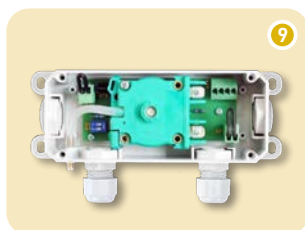
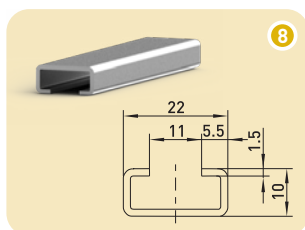
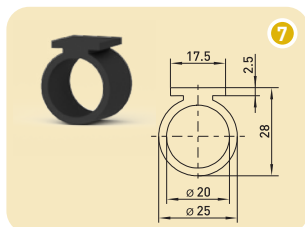
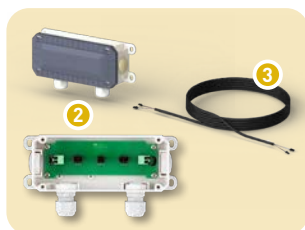
Safety edge activated



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Parts for TS 970, 971 and TS 981



Bezeichnung	Beschreibung	Art.-Nr.
Spiral cable with junction box (IP65) and built-in pressure-wave switch 1k2	1 For pneumatic pressure safety edge, also for pass-door and slack-rope switch, Spiral length 0,9 m, stretches to max. 4 m; straight cable length 0,4 m/0,35 m straight cable length 2,0 m/0,35 m	20002340.00003 20002340.00009
Junction end box	2 With connections for pass-door and slack-rope switches	30004834
Connection cable pluggable	3 Plugs fitted on either side, 5-core 4,5 m 6,5 m 8,5 m 10,5 m	20002630.00450 20002630.00650 20002630.00850 20002630.01050
End stop no. 1 / 650	4 Without brass fitting connection, Ø 22 mm	30000474
End stop no. 2 / 651	5 With brass fitting connection and air hose, Ø 22 mm	30002814
Air hose	6 (4 mm x 2,5 mm x 0,75 mm), length 5 m	40014949
Rubber profile no. 640	7 7,5 m 10 m 40 m	30005791.00750 30005791.01000 30005791.04000
C-profile	8 Galvanized steel 1 m 2 m 3 m	40014486 40014485 40014216
Pressure-wave switch 641 in the housing	9 NC contact; spare part for 1	30004841