

Safety Clutches SI

Material: Steel.

This clutch is a backlash-free overload system operating on the positive principle. It works with the recently developed principle of the "punched disk spring". At overload the disk spring disengages, the torque flow is interrupted. After the overload has passed, the clutch re-engages on its own.

The axial movement of the shift ring can be used to trigger a limit switch/sensor turning off the engine (travel 2mm).

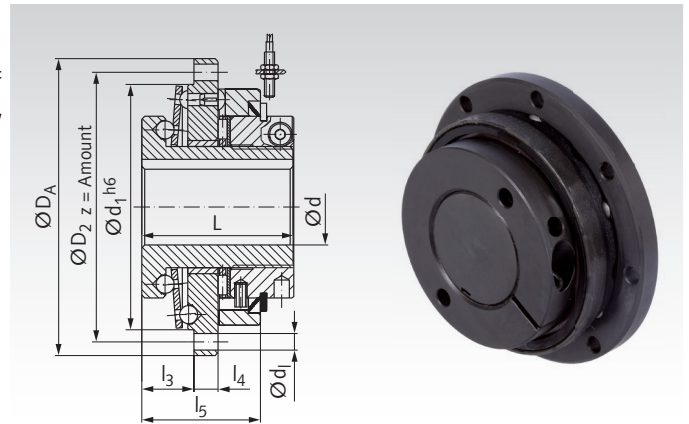
Customer components (e.g. sprockets, pulleys) can be easily integrated; special components, as needed for the common systems, are not required here.

Customized bores and feather-key grooves available at extra charge.

Ordering Details: e.g.: Product No. 612 720 00, Safety Clutch SI, 6-20 Nm

Product No.	Torque Nm	d _{max.} mm	L mm	D _A mm	D ₂ , z mm	d ₁ mm	d ₁ mm	l ₃ mm	l ₄ mm	l ₅ mm	*Speed max. min ⁻¹	Weight kg
612 720 00	6 - 20	20	45	80	71, z= 8	4,5	65	16	6	35	1500	0,69
612 725 00	20 - 60	25	50	98	89, z= 8	5,5	81	17	8	39	1500	1,26
612 735 00	25 - 80	35	60	120	110, z=12	5,5	102	21	10	42	1500	1,89
612 750 00	60 - 180	50	70	162	152, z=12	6,6	142	25	13	56	1500	3,93

* Higher speeds possible if technical data is transmitted.



Limit Switch (Engine-Emergency-Stop Switch)

Ordering Details: e.g.: Product No. 612 605 00 Limit Switch

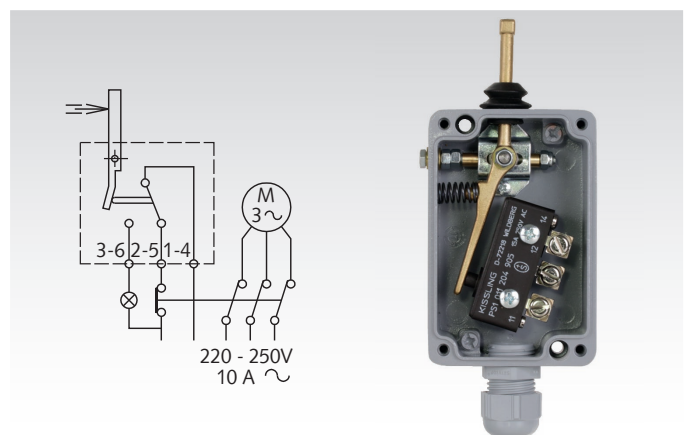
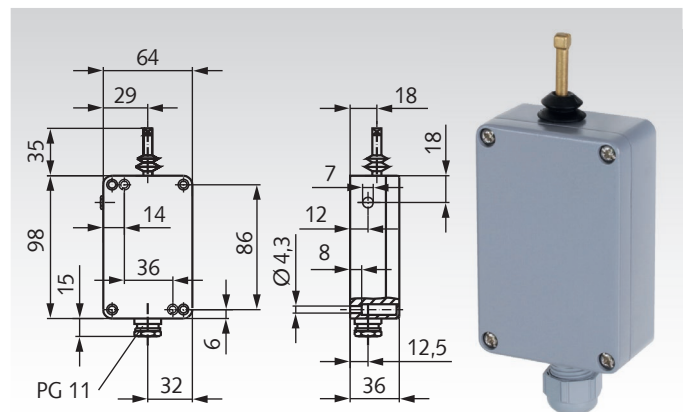
Product No.	Weight in g
612 605 00	324

Material: Housing made from aluminium die-cast, painted grey, with rubber seal. Switch made from brass. Bellow made from neoprene (black). Housing screws zinc-plated. Cable connection made from plastic (grey).

Electrical connection: 220-250V AC, 10 A.

Application: Robust limit switch for safety clutches SI (see above) and safety clutches CM (page 380) or similar applications. If the torque set on the clutch is exceeded, the clutch slips. At the same time the shift ring moves. This triggers the switch and turns off the engine. This protects the entire drive system and prevents possible damage.

Mounting: On the back wall are two bores Ø 4.3 mm. These fit two screws M4 with internal hexagon, slot or cross recess (head-Ø up to 7 mm). The wall thickness around the mounting holes is 8 mm.



Dimension Z₁ for Limit Stop

Clutch SI: 2mm

Clutch CM:

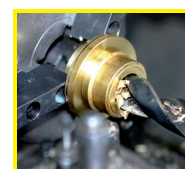
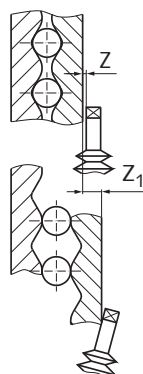
Size 20: 1.4mm

Size 25: 2.3mm

Size 35: 2.4mm

Size 45: 2.7mm

Size 55: 3.7mm



Reworking within 24h-service possible. Custom made parts on request.