



The roller of this control is driven by the movement of a conveyor belt. If the speed of the belt exceeds or falls under an adjustable threshold, an internal changeover contact switches over.

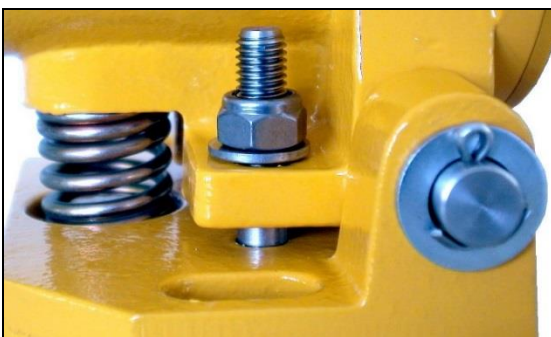
The long arm of these controls is hinged to the base plate. A spring is pressing this arm against the underside of the belt. With this suspension the arm adjusts to the changing heights of the conveyor belt. 2 different lengths of arms are available for different belt widths.

The internal electronics are constantly comparing the rotation speed of the roller with an individually and simply adjustable setpoint. If this threshold is overstepped or understepped, the contacts of the internal relay are immediately switched over. The evaluation by the electronics offers the advantage of an exact repeatability even at large differences in surrounding temperature. The electronics and the entire switch do not require an external power supply. The supply is generated internally by the rotation. Just a screwdriver is sufficient to set the threshold, neither programming skills nor menu skills are required. This threshold value is set at standstill of the conveyor belt by means of a scale in increments of 0.31 m/s, the minimum speed is 0.63 m/s.

A separate threshold value can be set for each direction, to the left other than to the right, and a separate relay with dry contacts is activated for each direction. If the threshold value is understepped, the relay switches back without delay.

The ball-bearing stainless steel shaft in junction with the all metal IP67 housing are the guarantors for a long and reliable service.

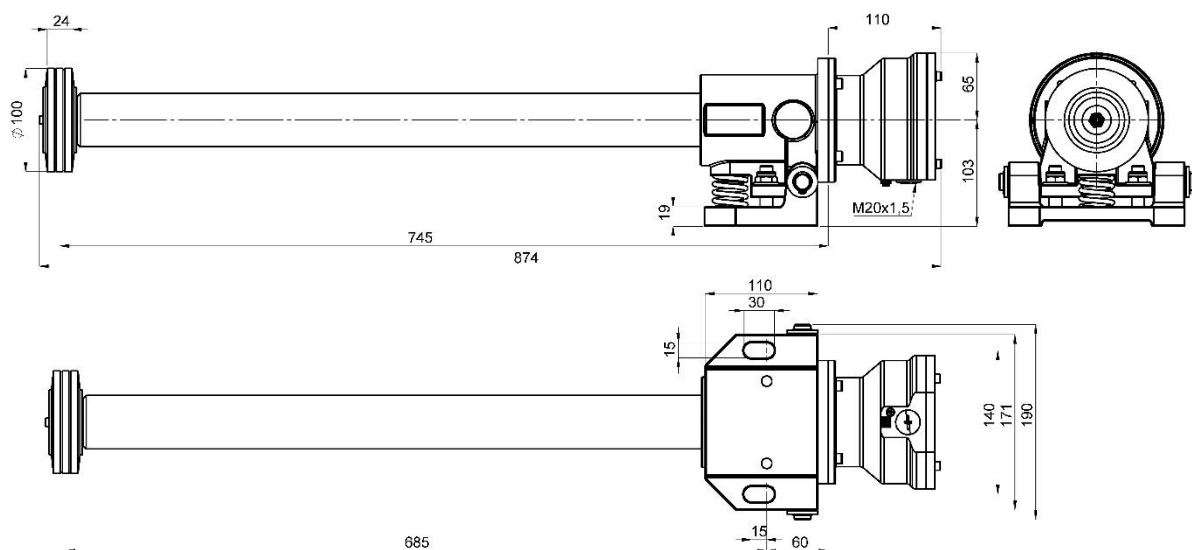
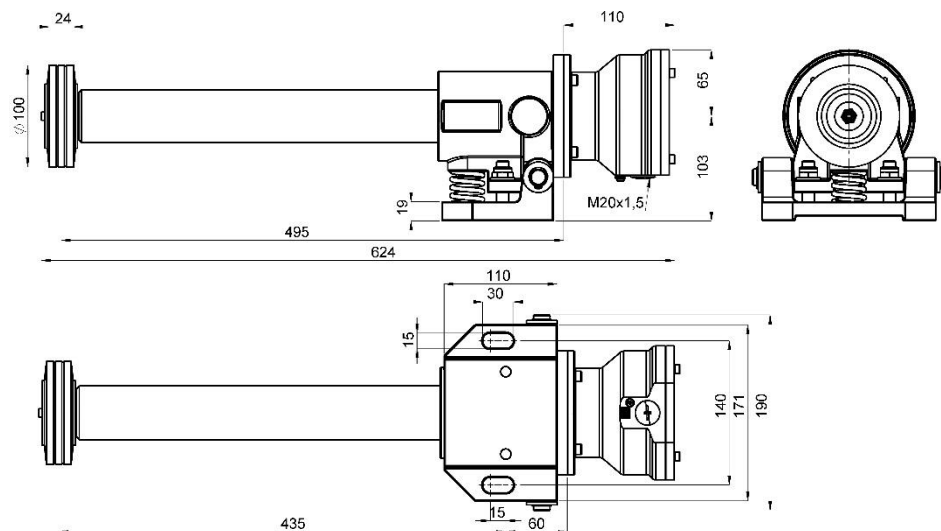
- **Jointed, spring loaded arm**
- **Detects standstill, overspeed or underspeed**
- **Dry contacts**
- **No external power supply, generation by belt motion**



joint with spring

Technical Data

Standards	EN 60947-5-1, EN 60204, EN 60529
Switching capacity	max. 400VAC, 5A 1250VA max. 240VDC, 5A 140W (at ohmic loads)
Size of terminals	max. 2.5 mm ²
Power supply	No supply foreseen. It is internal generated
Cable duct	1 x M20 threaded hole
adjustable trip speed	@increasing speed [m/s] 0.6 0.9 1.2 1.6 1.9 2.2 2.5..... max 31.1 @decreasing speed switching difference < 0,2m/s
Fixing	2 holes in the base plate, for M12 screws
Protection	IP 67
Material	cast iron, steel, anodized aluminium, stainless steel roller: rubber on a polypropylene rim
Coating	double layer 2-component PU, yellow RAL1003, anodization of aluminium
Temperature	Operation -25°C up to +70°C Storage -40°C up to +80°C

FW3-7/10**FW3-5/10****Order number****Motion Control:****Roller, as spare part:**length or arm 495mm: **FW3-5/10**, length or arm 745mm: **FW3-7/10****E7002**