

Belt Alignment Switch Extreme ZS 92 SR / KST

SWITCH CONTROL UNDER EXTREME CONDITIONS

The new robust switchgear series ZS 92 SR / KST has been especially developed for extreme conditions, suitable for application in open-cast mining, gravel plants, quarries and sand pits, recycling plants, waste industry, coal-fired power stations, heavy industrial plant manufacture.



Belt Alignment Switches ZS 92 SR / KST

ZS 92 SR / KST belt alignment switches monitor the alignment of conveyor belts. A large stainless steel roller lever registers when the belt is running off centre between the conveying rolls, for example because it is unevenly loaded, and then – depending on its communication with the control unit – either corrects the alignment or stops the conveyor system.

An outstanding new feature is staggered contacts with individually adjustable switching points. The switching points for advance warning and for switching off can both be individually set within a range of 5-35°. This is made possible through a simple unlocking, shifting and latching of the switching inserts. The switch first generates a warning and at further actuation it stops the belt. These »pre-warning contacts« reduce the downtime of the conveyor: the operator still has a chance to react before the belt stops.



Robust corrosion-resistant aluminium die-cast enclosure.

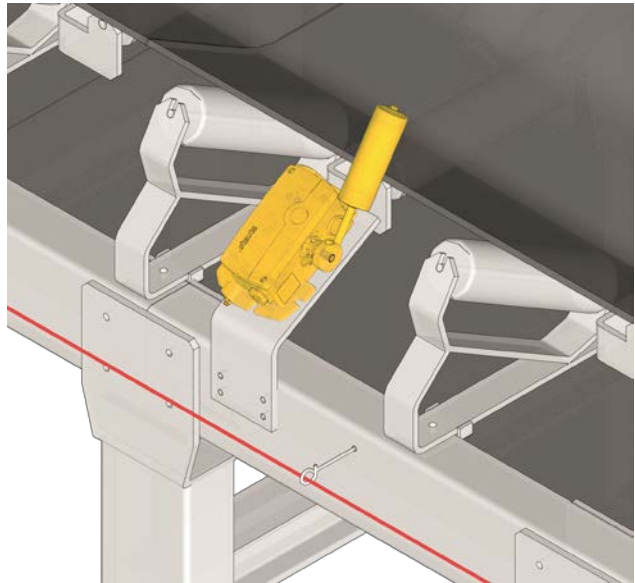


High-quality shockproof thermoset enclosure.

Belt Alignment Switch Extreme ZS 92 SR / KST

Key Features:

- Temperature resistant from -40 °C ... +85 °C.
- High degree of protection IP 66 / IP 67.
- Available in corrosion-resistant aluminium die-cast or thermoset enclosure for application with aggressive bulk goods and environmental conditions.
- Screws and belt alignment roller made of stainless steel.
- Available with toothed shaft P or clamping.
- Belt alignment lever adjustable in 12° steps using a self-locking mechanism
- Back and base mounting possible.



- **Staggered contacts allow for warning signal to initiate a belt correction.**
- **Switch off after further actuation of the belt alignment lever.**
- **»Pre-warning contacts« reduce standstill time of the conveyor-belt system.**

Belt Alignment Switches Options



Belt alignment lever adjustable in 12° steps using a self-locking mechanism + indicator lamp

- With toothed shaft P
- Belt-alignment lever with toothed shaft adjustable in 12° steps
- Available with indicator lamp L





Belt alignment lever continuously adjustable using a clamp mechanism

- Available with indicator lamp L



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Technical Data:	ZS 92 SR	ZS 92 SR KST
Applied Standards	EN 60947-5-1	EN 60947-5-1
Enclosure	Aluminium die-cast, corrosion-resistant, powder-coated, passivated, shock-proof, anthracite grey. Signal yellow, similar to RAL 1003.	Thermoset, grey, signal yellow, similar to RAL 1003.
Connection	Screw connection terminals	Screw connection terminals
Cable cross-section	Max. 2.5 mm ² (incl. conductor ferrules)	0.5 ... 2.5 mm ² (incl. conductor ferrules)
Cable entry	2 x M25 x 1.5	2 x M25 x 1.5
Degree of protection	IP 66/67 to IEC/EN 60529	IP 66/67 to IEC/EN 60529
Switching system	Snap action, type P: positive break NC contacts 	Snap action, type P: positive break NC contacts 
Switching elements	2 NC/2 NO contacts, type Zb	2 NC/2 NO contacts, type Zb
B10d (10 % load)	2 million	2 million
T_M	Max. 20 years	Max. 20 years
I_e / U_e	4 A/400 VAC; 0.25 A/250 VDC; 0.55 A/125 VDC; 2.5 A/48 VDC; 3 A/24 VDC	4 A/400 VAC; 0.25 A/250 VDC; 0.55 A/125 VDC; 2.5 A/48 VDC; 3 A/24 VDC
Utilisation category	AC-15; DC-13	AC-15; DC-13
Short-circuit protection	4 A gG/gN fuse	4 A gG/gN fuse
Ambient temperature	-40°C ... +85°C	-40 °C ... +70 °C
Mechanical life	> 1 million operations at max. 45° operating angle	> 1 million operations at max. 45° operating angle
Approvals	