

KBT

Product Overview



Pull Cord Emergency Switch



Belt Misalignment Switch



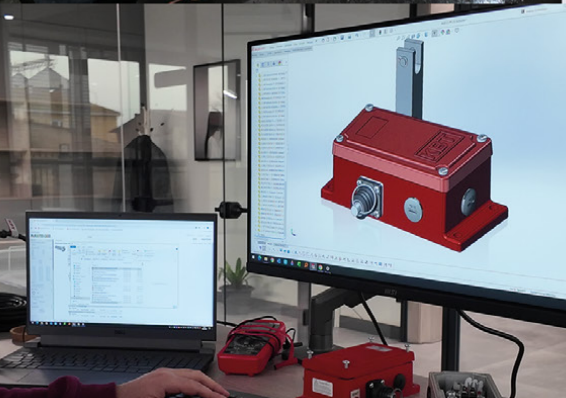
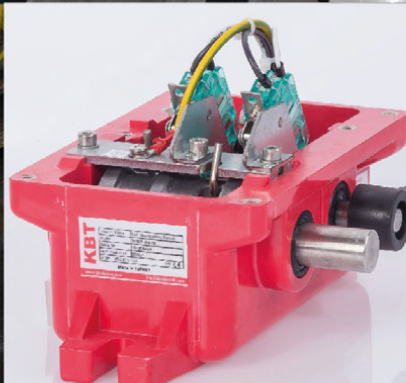
Tilt (Blocked Chute) Switch



Crane / Hoisting Switches



ATEX Products



Who Are We?

Since 2000, KBT Elektrik has manufactured conveyor belt safety equipment as an OEM supplier for global brands and began production under its own brand in 2018.

- ▶ Focuses on the development, production, and sale of high-quality safety switches for the bulk material industry and crane machinery.
- ▶ Operates a 4,000 m² indoor production facility in Turkey.
- ▶ Works with a highly motivated team of 25 people.
- ▶ Provides professional worldwide shipping capability and process tracking.

Why KBT?

What sets KBT apart is not only what we produce, but how we work.

- ▶ We build close relationships with customers through our field sales team and international partners.
- ▶ Strong OEM and custom manufacturing capability.
- ▶ Fast delivery times through high production capacity and flexible planning.
- ▶ Our products hold all required certifications.

KBT is not only a product supplier; it is also a manufacturing partner.



Our Approach

KBT combines field experience with strong mechanical engineering expertise to develop reliable and durable safety equipment for demanding industrial environments. Our products are designed for long service life, easy integration into existing systems, and reliable performance under harsh operating conditions. Through continuous product development and close cooperation with our customers, we aim to deliver effective safety solutions that support uninterrupted industrial operations.

Human and Machine Safety,

“

KBT offers control and safety equipment designed to withstand heavy industrial conditions in order to ensure the safety and monitoring of conveyor belt systems. All our products are manufactured in our own facilities in Turkey and can be customized according to application needs. Our products are designed to withstand demanding working conditions and are manufactured to high quality standards.

With many years of industry experience, we build strong relationships with our users while placing reliability and durability at the center of every product through our strong mechanical engineering background. All our products undergo comprehensive R&D and testing processes and are developed for long service life and safe operation in the field.

KBT aims to be a strong solution partner in the field of safety and monitoring equipment for heavy-duty industrial conveyor systems. Our broad product range includes pull cord emergency stop switches, belt misalignment switches, tilt switches, and other conveyor safety equipment. This allows us to offer versatile and reliable solutions to our customers.

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Customer
Satisfaction



Qualified
Personnel



Flawless Production
Process



Reliable
Delivery



Short Delivery
Time

Quality and Trust

For KBT, quality is not only about manufacturing a good product, but also about delivering solutions that fully meet customer needs. Our customizable design approach is an integral part of our production processes. With our technical expertise, industrial experience, and customer-focused approach, we continue to develop reliable and cost-effective solutions.

KBT control equipment, manufactured to withstand heavy industrial conditions, ensures that safety-related functions in conveyor systems are performed reliably. Designed to protect people, machinery, and production safety, our products have been preferred worldwide for many years.

With a mindset of continuous improvement, KBT moves forward with an approach that prioritizes quality, reliability, and cost efficiency.

"With the satisfaction of seeing that our work is lasting, we continue our journey by increasing our momentum."

Industries We Serve



▶ Power Plants

▶ Steel Production



▶ Crane and Hoisting Systems

▶ Mining



▶ Cement Plants

▶ Fertilizer and Agriculture

Our Product Groups



**Pull Cord Emergency
Switches**



**Belt Misalignment
Switches**



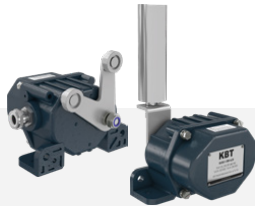
**Position Limit
Switch**



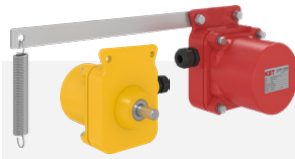
**Conveyor Belt Damage
Detector**



**Blocked Chute
Tilt Switch**



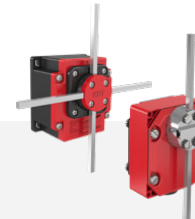
**Heavy Duty and
High Temperature
Limit Switch**



**Conveyor Belt
Speed Monitors**



**ATEX / EX Proof
Products**



**Crane Safety
Products**



KBT

TPR22 SERIES

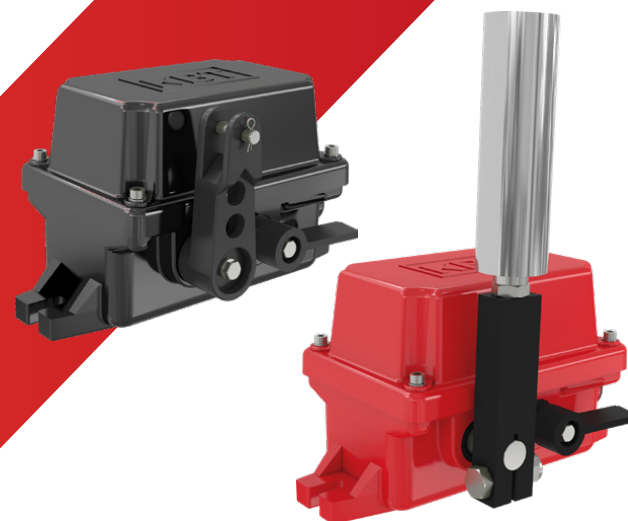
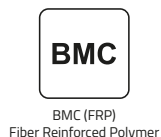
The TPR22 Series provides a high level of protection for conveyor safety applications in a cost-effective package. Its corrosion-resistant FRP body, combined with a stainless steel internal mechanism and roller, ensures reliable operation in harsh industrial environments. With IP68 protection, the TPR22 Series delivers consistent performance in extremely dusty conditions, while its highly customizable design with many additional options allows easy adaptation to specific application requirements.

ATEX Zone 21 version available:

⚡ II 2D Ex tb IIIC T85°C Db

Typical applications:

- ▶ Fertilizer and agriculture plants
- ▶ Cement plants
- ▶ Phosphate processing plants
- ▶ Chemical industry applications
- ▶ Oil and petrochemical industry
- ▶ Applications with corrosive environments



TPR22 Series

Product Variants and Features

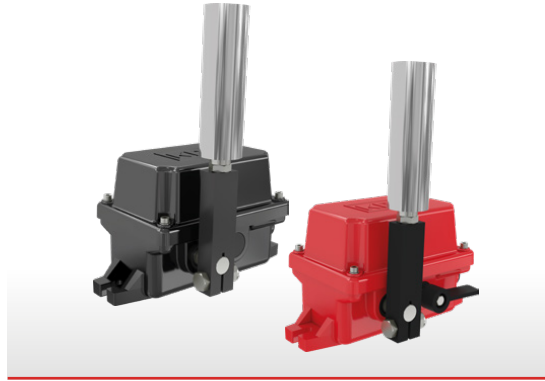
TPR22-PR SERIES



Pull cord emergency stop switches are electromechanical control devices used to provide emergency stop functionality along conveyors. They are installed with a pull rope running parallel to the conveyor, allowing the line to be stopped from any point. When the rope is pulled or broken, the switch generates a stop command in accordance with EN 60947-5-1. These devices are also suitable for long machine areas and extended-profile machines.

- ▶ Up to 3 SPDT outputs
- ▶ 2x50 m max. rope distance
- ▶ Signal lamp and alarm options LOTO and trip flag options
- ▶ Single-side version option

TPR22-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ Up to 3 SPDT outputs
- ▶ Custom alarm and stop angles
- ▶ Different roller diameter/length options
- ▶ Latching or non-latching options

TPR22-PS SERIES



Position limit switches are electromechanical control devices used to monitor mechanical position, especially in gravity take-up systems and tripper cars. Thanks to their robust construction, they are also widely used in industrial applications where reliable position detection is required.

- ▶ Up to 3 SPDT outputs
- ▶ Custom alarm and trip angles
- ▶ Different roller material options
- ▶ Center-neutral contact option

KBT

NSR22 SERIES

The NSR22 Series provides high-level, heavy-duty protection for demanding industrial applications. Its cast aluminum body is designed to protect even in areas exposed to impact, while the stainless steel internal mechanism and roller provide reliable, long-term operation. With IP68 protection, the NSR22 Series protects your equipment in the dustiest conditions and can be customized with a wide range of options to meet specific application requirements.

ATEX Zone 21 version available:

 II 2D Ex tb IIIC T85°C Db

Typical applications:

- ▶ Mining plants
- ▶ Cement plants
- ▶ Quarries
- ▶ Iron and steel industry
- ▶ Oil and petrochemical industry
- ▶ Ports



Aluminum
Die Casting



IP68
Protection Class



Operating
Temperature



Impact
Resistance



NSR22 Series

Product Variants and Features

NSR22-PR SERIES



Pull cord emergency stop switches are electromechanical control devices used to provide emergency stop functionality along conveyors. They are installed with a pull rope running parallel to the conveyor, allowing the line to be stopped from any point. When the rope is pulled or broken, the switch generates a stop command in accordance with EN 60947-5-1. These devices are also suitable for long machine areas and extended-profile machines.

- ▶ Up to 3 SPDT outputs
- ▶ 2x50 m max. rope span
- ▶ Signal lamp, alarm, LOTO and trip flag options
- ▶ One-way version available

NSR22-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ Up to 3 SPDT outputs
- ▶ Custom alarm and stop angles
- ▶ Different roller diameter/length options
- ▶ Latching or non-latching options

NSR22-PS SERIES



Position limit switches are electromechanical control devices used to monitor mechanical position, especially in gravity take-up systems and tripper cars. Thanks to their robust construction, they are also widely used in industrial applications where reliable position detection is required.

- ▶ Up to 3 SPDT outputs
- ▶ Custom alarm and trip angles
- ▶ Different roller material options
- ▶ Center-neutral contact option

KBT

NSR66 SERIES

The NSR66 Series has a robust design that provides a high level of protection for demanding industrial applications. Its die-cast aluminum body is suitable for areas with high impact risk, while its stainless steel internal mechanism and roller provide long-term, reliable operation. With IP66 / NEMA 4X protection and a corrosion-resistant surface coating, the NSR66 Series delivers reliable performance and long service life across a wide range of environments.

ATEX Zone 21 version available:

⚡ II 2D Ex tb IIIC T120°C Db

Class II, Div 1 & 2, Group E, F & G

Typical applications:

- ▶ Mining plants
- ▶ Cement plants
- ▶ Quarries
- ▶ Iron and steel industry
- ▶ Oil and petroleum products industry
- ▶ Port and terminal operations



Aluminum
Die Casting



IP66
Protection Class



Operating
Temperature



Impact
Resistance



NSR66 Series

Product Variants and Features

NSR66-PR SERIES



Pull cord emergency stop switches are electromechanical control devices used to provide emergency stop functionality along conveyors. They are installed with a pull rope running parallel to the conveyor, allowing the line to be stopped from any point. When the rope is pulled or broken, the switch generates a stop command in accordance with EN 60947-5-1. These devices are also suitable for long machine areas and extended-profile machines.

- ▶ 2 or 4 SPDT outputs
- ▶ 2x50 m max. rope distance
- ▶ Signal lamp, alarm, LOTO and trip flag options
- ▶ Easy lever-angle adjustment

NSR66-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ 2 or 4 SPDT outputs
- ▶ Custom alarm and stop angles
- ▶ Different roller diameter/length options
- ▶ Latching or non-latching options
- ▶ Bypass latch option

NSR66-PS / BD3 SERIES



Position limit switches are electromechanical control devices used to monitor mechanical position, especially in gravity take-up systems and tripper cars. Thanks to their robust construction, they are also widely used in industrial applications where reliable position detection is required.

Belt damage detectors are used in opposing pairs to detect tears in the conveyor belt or foreign objects protruding through the belt. This makes intervention possible before serious damage or system failure occurs.

- ▶ 2 or 4 SPDT outputs
- ▶ Custom alarm and stop angles (PS)
- ▶ Different roller material options (PS)
- ▶ Center-neutral contact option (PS)

KBT

TILT SWITCH

The Tilt Switch Series provides heavy-duty and reliable solutions for bulk material tilt detection in harsh industrial environments. In addition to mercury contact options, advanced mercury-free versions with built-in fail-safe and delay functions deliver stable operation with high protection against false alarms. Cast-body models are suitable for general use, while stainless steel versions provide increased resistance to corrosion and chemical effects. Customizable sealing and cable options, a wide range of control units with adjustable delay, alarm inversion and sensitivity, and a separate fault output for easy probe status monitoring support flexible system integration. High-temperature designs, probe extension options for wear compensation or low-density materials, and an ATEX Zone 20 version are also available.

ATEX version available:

Ex II 1D Ex ma/ta IIIC T120°C Da

Ex I M1 Ex ma/ia T80°C/ T120°C (when used with Ex i power supply)

Typical applications:

- ▶ Blocked chute alarm
- ▶ High-level alarm
- ▶ Low-level alarm
- ▶ Flow status detection



IP68
Protection Class



Operating
Temperature



Tilt Switch Series

Product Variants and Features

CB-39 SERIES



The CB-39 Series is suitable for harsh industrial environments where mechanical strength and long service life are required, thanks to its robust cast body. The CB-39 Series provides stable operation and reliable performance under demanding process conditions.

- ▶ Cast body providing extra strength for heavy-duty applications
- ▶ Mercury or mercury-free contact options
- ▶ IP68 protection class
- ▶ Customizable cable length and cable protection options
- ▶ High-temperature versions available

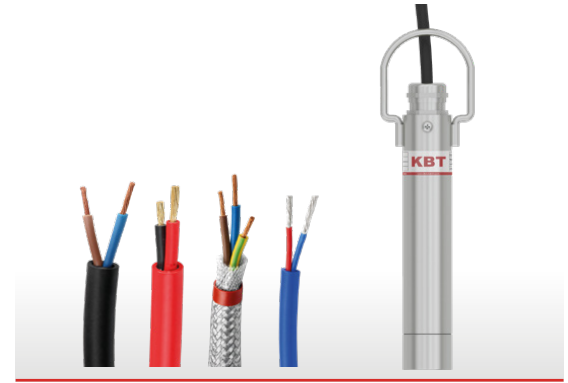
SS-43 SERIES



The SS-43 Series offers superior resistance to corrosion and chemical effects thanks to its stainless steel construction, making it suitable for aggressive and hygienic environments. The SS-43 Series provides reliable operation and long service life under demanding process conditions.

- ▶ Corrosion-resistant durable stainless steel body
- ▶ Mercury or mercury-free contact options
- ▶ IP68 protection class
- ▶ Customizable cable length and cable protection options
- ▶ High-temperature versions available

MS-59 SERIES



The MS-59 Series provides extra protection against dust ingress with its mechanically sealed design, making it suitable for demanding process conditions. The MS-59 Series delivers stable operation and long-term reliability in harsh industrial environments.

- ▶ Weld-sealed lower body and double-protected upper section (gland and resin) sealing design
- ▶ Mercury or mercury-free contact options
- ▶ IP68 protection class
- ▶ Customizable cable length and cable protection options
- ▶ High-temperature versions available

KBT

KT-30F, KT-30FS, KT-32F, KT-40X and KT-35DIN Control Units

Tilt switch control units provide easy and reliable control of tilt switch probes; in addition to alarm and fault outputs, they include integrated signal lamps for clear status monitoring. Adjustable delay, sensitivity, and function inversion options allow flexible configuration and help reduce false alarms.

KT-30F has an aluminum body, KT-30FS has a stainless steel body, and KT-32F has an ABS/FRP plastic body suitable for field mounting. KT-35DIN is designed for DIN-rail mounting inside electrical panels.

- ▶ Red and green signal lamps on field-mounted control units
- ▶ Adjustable alarm delay options
- ▶ Reversible alarm function (vertical alarm)
- ▶ Compatible with both NC and electronic probes
- ▶ Different body material options
- ▶ Reliable enclosure with IP66 protection class



Control Units KT-30F, KT-30FS, KT-32F, KT-40X and KT-35DIN Series

Product Variants and Features

KT-30F, KT-30FS, KT-32F and KT-35DIN



Tilt switch control units provide reliable probe control through alarm and fault outputs with built-in signal lamps. Adjustable delay and sensitivity help prevent false alarms. KT-30F (aluminum), KT-30FS (stainless steel), and KT-32F (ABS/FRP) are field-mounted models. KT-35DIN is a DIN-rail type for panel mounting.

- ▶ Red/green lamps on field units
- ▶ Adjustable alarm delay options
- ▶ Reversible alarm logic
- ▶ NC and electronic probe compatible
- ▶ Different enclosure materials
- ▶ IP66 reliable protection

KT-40X Control Unit for Hazardous Areas



KT-40X provides reliable tilt switch probe control for hazardous areas. It features alarm and fault outputs, signal lamps, and adjustable delay. It has a cast aluminum body and is ATEX Zone 21 certified for field mounting in explosive dust atmospheres.

- ▶ Red/green lamps for visual warning
- ▶ Adjustable alarm delay
- ▶ Reversible alarm logic
- ▶ NC and electronic probe compatible
- ▶ Cast aluminum body
- ▶ ATEX Zone 21 for dust atmospheres (Hazardous-area use)

Probe Extensions



Tilt switch probes are available with various extension options for different applications. The ball float provides reliable detection in low-density bulk materials. The wear probe is used in applications with direct material contact. Cross plate and wear plate options increase the contact area in flow applications for more reliable triggering.

- ▶ Extension parts can be easily added to CB-39 and MS-59 probes via process connection
- ▶ SS-43 extensions can be welded to the probe body upon request
- ▶ Optional cable protection
- ▶ Simple and economical solution for a wide range of application requirements

KBT

NSR51 SERIES

The NSR51 Series is a heavy-duty limit switch designed for reliable position and control applications in harsh industrial environments. Its robust construction and IP67 protection class ensure dependable operation under dust, moisture, and demanding process conditions.

With different actuator, contact, and function options, including high-temperature versions, the NSR51 Series offers a broad product range and flexible solutions for many industrial applications.

High-temperature version available:

- Continuous operation at 180°C,
- 2-hour operation at 250°C according to EN1363-1.

Typical applications:

- ▶ Machine protection applications
- ▶ Furnace-area applications
- ▶ Fire dampers
- ▶ High-temperature applications
- ▶ Elevators, bucket elevators and similar equipment

CE EAC



Aluminum
Die Casting



IP67
Protection Class



Operating
Temperature



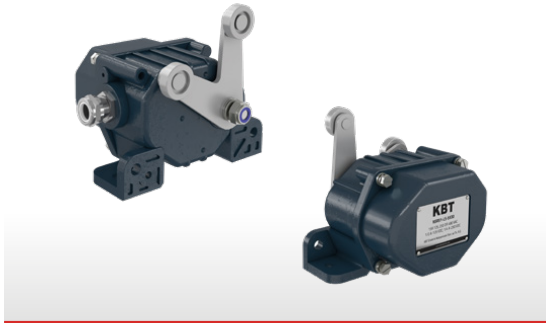
Impact
Resistance



NSR51 Series

Product Variants and Features

NSR51-LS SERIES



Limit switches are electromechanical devices used to detect the position or movement of a mechanical component by physical contact. When a preset limit is reached, the switch changes contact state to start, stop, signal, or interlock a machine, providing reliable and precise control in industrial applications.

- ▶ Single- or double-stage contacts
- ▶ Center-neutral version option with different contacts in two directions
- ▶ 22.5° step lever-angle adjustment
- ▶ Fork lever for position detection
- ▶ High-temperature version available

NSR51-PR SERIES



Pull cord emergency stop switches are electromechanical control devices used to provide emergency stop functionality along conveyors. They are installed with a pull rope running parallel to the conveyor, allowing the line to be stopped from any point. When the rope is pulled or broken, the switch generates a stop command in accordance with EN 60947-5-1. These devices are also suitable for long machine areas and extended-profile machines.

- ▶ Wire-pull trigger for machine control
- ▶ Spring-return, single-side operation
- ▶ High-temperature version available

NSR51-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ Vertical roller for machine protection
- ▶ Durable stainless steel roller
- ▶ High-temperature version available

KBT

NSR11 SERIES

The NSR11 Series is an economical and practical solution designed for basic industrial applications that require reliable operation at a competitive cost. Its body provides sufficient durability for typical industrial environments, delivering dependable performance despite its cost-effective design. With its simple and proven internal mechanism, the NSR11 Series provides reliable switching; customization options are available to suit standard application needs.

Typical applications:

- ▶ Mining plants
- ▶ Cement plants
- ▶ Quarries
- ▶ Iron and steel industry

**BEST
PRICE**

CE EAC

AL

Aluminum
Die Casting



IP65
Protection Class

**-25°C
+85°C**

Operating
Temperature



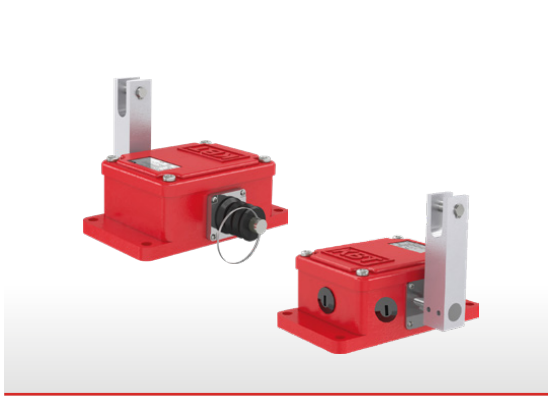
Impact
Resistance



NSR11 Series

Product Variants and Features

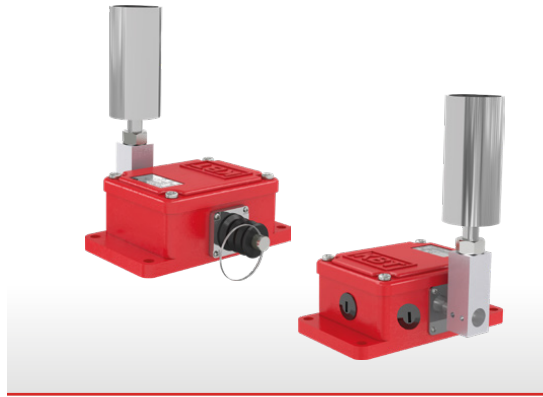
NSR11-PR SERIES



Pull cord emergency stop switches are electromechanical control devices used to provide emergency stop functionality along conveyors. They are installed with a pull rope running parallel to the conveyor, allowing the line to be stopped from any point. When the rope is pulled or broken, the switch generates a stop command in accordance with EN 60947-5-1. These devices are also suitable for long machine areas and extended-profile machines.

- ▶ 1 or 2 SPDT outputs
- ▶ 2x25 m max. rope distance
- ▶ Signal lamp and alarm options

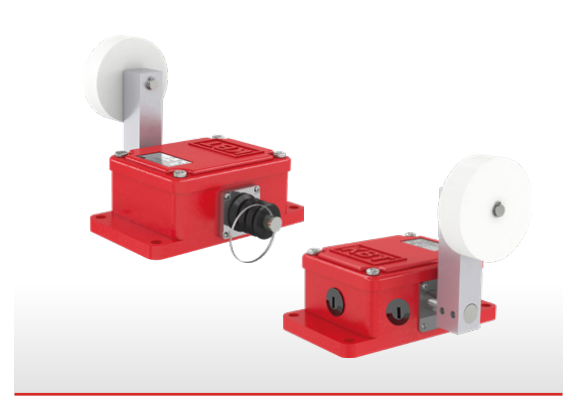
NSR11-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ 1 or 2 SPDT outputs
- ▶ Custom alarm and stop angles
- ▶ Latching or non-latching options

NSR11-PS SERIES



Position limit switches are electromechanical control devices used to monitor mechanical position, especially in gravity take-up systems and tripper cars. Thanks to their robust construction, they are also widely used in industrial applications where reliable position detection is required.

- ▶ 1 or 2 SPDT outputs
- ▶ Custom alarm and stop angles
- ▶ Center-neutral contact option

KBT

NSR12 SERIES

The NSR12 Series is an economical and practical solution designed for basic industrial applications that require reliable operation at a competitive cost. Its body provides sufficient durability for typical industrial environments, delivering dependable performance despite its cost-effective design. With a simple, proven internal mechanism and terminal block for easy connection, the NSR12 Series provides reliable switching. Customization options are available for standard application needs.

Typical applications:

- ▶ Mining plants
- ▶ Cement plants
- ▶ Quarries
- ▶ Iron and steel industry

**BEST
PRICE**

CE EAC

AL

Aluminum
Die Casting



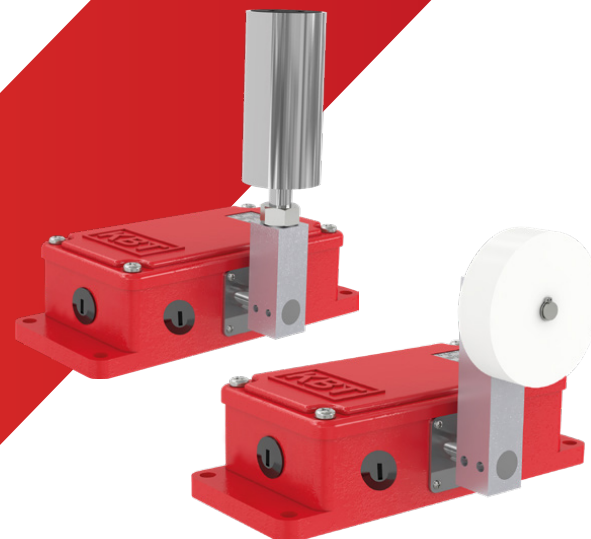
IP65
Protection Class

**-25°C
+85°C**

Operating
Temperature



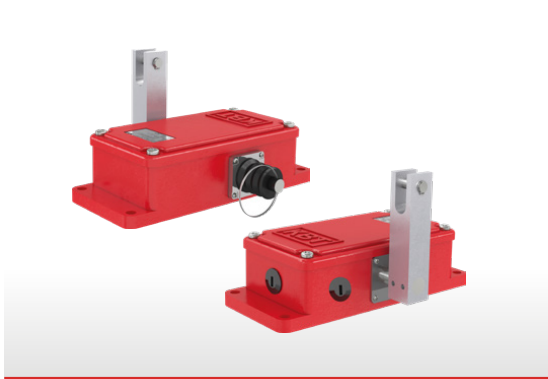
Impact
Resistance



NSR12 Series

Product Variants and Features

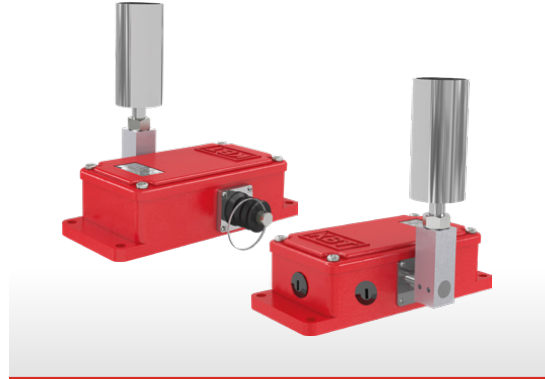
NSR12-PR SERIES



Pull cord emergency stop switches are electromechanical control devices used to provide emergency stop functionality along conveyors. They are installed with a pull rope running parallel to the conveyor, allowing the line to be stopped from any point. When the rope is pulled or broken, the switch generates a stop command in accordance with EN 60947-5-1. These devices are also suitable for long machine areas and extended-profile machines.

- ▶ 1 or 2 SPDT outputs
- ▶ Internal terminal block
- ▶ 2x25 m max. rope distance
- ▶ Signal lamp and alarm options

NSR12-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ 1 or 2 SPDT outputs
- ▶ Internal terminal block
- ▶ Custom alarm and stop angles
- ▶ Latching or non-latching options

NSR12-PS SERIES



Position limit switches are electromechanical control devices used to monitor mechanical position, especially in gravity take-up systems and tripper cars. Thanks to their robust construction, they are also widely used in industrial applications where reliable position detection is required.

- ▶ 1 or 2 SPDT outputs
- ▶ Internal terminal block
- ▶ Custom alarm and stop angles
- ▶ Center-neutral contact option

KBT

BSM SERIES

The BSM60, BSM60B and BSM70 Series provide reliable conveyor speed monitoring solutions for industrial applications. The BSM60 Series consists of pulse generators designed for precise speed signal generation, while the BSM60B version is optimized for low-speed applications.

The BSM70 Series is an integrated solution that combines speed detection and control in a single unit; SPDT outputs and analog output options allow direct system integration. Designed for reliable performance in material handling environments, the BSM Series supports effective conveyor protection and process control.

Typical applications:

- ▶ Conveyor belt speed detection
- ▶ Underspeed and standstill detection
- ▶ Belt slip detection (on the rotation axis)

CE EAC



Aluminum
Die Casting



IP65
Protection Class



Operating
Temperature



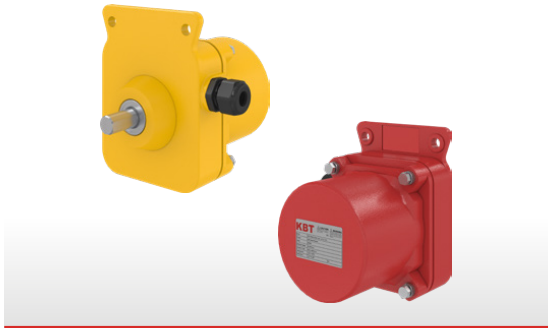
Impact
Resistance



BSM Series

Product Variants and Features

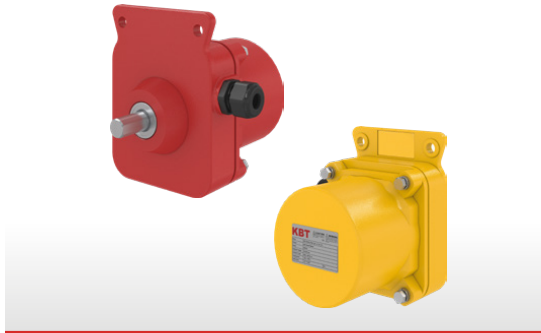
BSM60 SERIES



Belt speed monitors are devices used to measure and supervise the operating speed of conveyor belts. They verify that the belt is running at the correct speed and detect abnormal conditions such as underspeed, overspeed, slip, or standstill.

- ▶ Pulse (square wave) generator for medium- and high-speed conveyors
- ▶ Protective aluminum body
- ▶ Strong mechanical connection can be made with nearby equipment
- ▶ Compatible with integrators and counters

BSM60B SERIES



Belt speed monitors are devices used to measure and supervise the operating speed of conveyor belts. They verify that the belt is running at the correct speed and detect abnormal conditions such as underspeed, overspeed, slip, or standstill.

- ▶ Pulse (square wave) generator for low-speed conveyors
- ▶ Protective aluminum body
- ▶ Strong mechanical connection can be made with nearby equipment
- ▶ Compatible with integrators and counters

BSM70 SERIES



Belt speed monitors are devices used to measure and supervise the operating speed of conveyor belts. They verify that the belt is running at the correct speed and detect abnormal conditions such as underspeed, overspeed, slip, or standstill.

- ▶ All-in-one conveyor speed detection and control unit system
- ▶ Integrated SPDT outputs for alarm and stop
- ▶ Analog output for precise speed monitoring
- ▶ Reliable and compact industrial design

KBT

COMPACT SERIES: **NSR55-BM**, **TPR55-BM** and **NSR90**

The NSR55 and TPR55 Series are compact belt misalignment switches designed to provide reliable conveyor protection in installations with limited space. NSR55 offers robust protection with its IP65 aluminum body and adjustable lever height for flexible installation. TPR55, with its durable composite body, provides a lightweight and corrosion-resistant alternative while maintaining reliable performance. Both series are available with different lever and contact options, offering efficient, space-saving solutions for conveyor monitoring applications.

The NSR90 Series is a compact pull cord emergency stop system designed to provide reliable emergency stop functionality for conveyors and long-line machine applications. Its space-saving design allows easy installation in narrow areas while delivering dependable performance in industrial environments.

Typical applications:

- ▶ Conveyor belts
- ▶ Compact conveyor systems
- ▶ Light-duty applications
- ▶ Crane systems
- ▶ Packaging and process lines
- ▶ Machines with limited mounting space
- ▶ Material handling systems



Aluminum
Die Casting



BMC (FRP)
Fiber Reinforced Polymer



IP65
Protection Class



NSR55-BM, TPR55-BM, NSR90 Series

Product Variants and Features

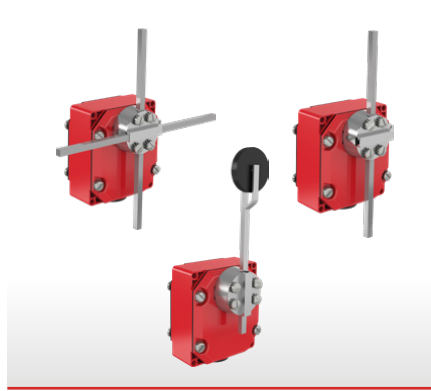
NSR55-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ 2 SPDT outputs
- ▶ Easy lever-height adjustment
- ▶ Compact belt misalignment solution

NSR55-PS SERIES



Limit switches are electromechanical devices used to detect the position or movement of a mechanical component by physical contact. When a preset limit is reached, the switch changes contact state to start, stop, signal, or interlock a machine, providing reliable and precise control in industrial applications.

- ▶ 2 SPDT outputs
- ▶ Various lever types
- ▶ Easy lever-height adjustment
- ▶ Spring-return or latching options

TPR55-BM SERIES



Belt misalignment switches are control devices used to monitor lateral belt movement in conveyor systems. Installed in opposing pairs along the conveyor, they detect belt drift in either direction. The switch provides an alarm output at low misalignment angles and sends a stop command at higher angles, helping shut down and protect the conveyor system effectively.

- ▶ 2 SPDT outputs
- ▶ Compact belt misalignment solution
- ▶ Corrosion-resistant body

NSR90-PR SERIES



Pull cord emergency stop switches are electromechanical control devices used to provide emergency stop functionality along conveyors. They are installed with a pull rope running parallel to the conveyor, allowing the line to be stopped from any point. When the rope is pulled or broken, the switch generates a stop command in accordance with EN 60947-5-1. These devices are also suitable for long machine areas and extended-profile machines.

- ▶ Single- or double-side operation
- ▶ Compact design
- ▶ Push-button or key reset
- ▶ Easy installation

KBT

KSA, TPR1520 and NSR1520 SERIES

The KSA Series consists of rotary limit switches designed for crane and hoisting applications, providing precise travel limitation and position control. With gear ratio options from 1:6 to 1:200, the series can be equipped with 2 to 4 SPDT switches and optional potentiometer or encoder configurations. Its compact and lightweight body enables easy integration into lifting systems.

The TPR1520 and NSR1520 Series are rotary position switches designed for reliable position monitoring in industrial applications. Both models offer several position contact configuration options to meet different control requirements. TPR1520 has a durable plastic body for lightweight and economical installations, while NSR1520 is supplied with a die-cast aluminum body for increased mechanical strength in demanding environments.

Typical applications:

- ▶ Overhead travelling cranes
- ▶ Winches and lifting platforms
- ▶ Electric chain and wire-rope hoists
- ▶ Port and container handling systems

CE EAC



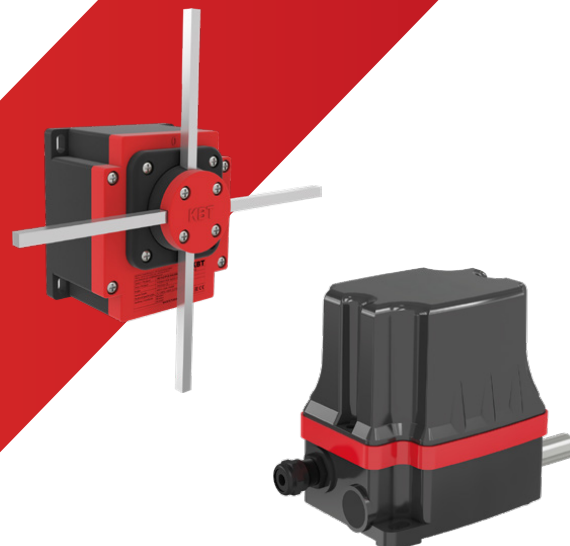
Aluminum
Die Casting



Plastic Body
Option



IP65
Protection Class



KSA, TPR1520 and NSR1520 Series

Product Variants and Features

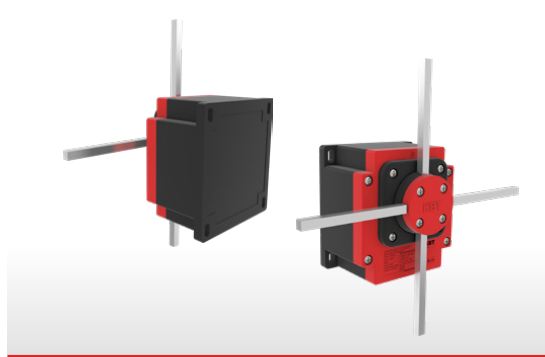
KSA SERIES



Rotary limit switches are electromechanical devices designed to monitor and limit rotary motion by counting shaft revolutions. They are widely used in hoisting, crane, and positioning systems, where shaft revolutions usually correspond to linear movement, such as rope drum travel.

- ▶ 2, 3 or 4 SPDT output options
- ▶ Gear ratio options from 1:6 to 1:200
- ▶ Optional potentiometer configuration
- ▶ Optional absolute encoder for precise position control
- ▶ Hollow or solid 8 mm or 12 mm shaft options

TPR1520 SERIES



Fork switches are electromechanical devices installed on crane machinery to change contact state at defined control points along the crane bridge. Six different configuration options allow full adaptation to a wide range of application requirements.

- ▶ Six different contact configuration options
- ▶ Easy electrical connection
- ▶ Economical plastic body
- ▶ Adjustable rods for flexible positioning

NSR1520 SERIES



Fork switches are electromechanical devices installed on crane machinery to change contact state at defined control points along the crane bridge. Six different configuration options allow full adaptation to a wide range of application requirements.

- ▶ Six different contact configuration options
- ▶ Easy electrical connection
- ▶ Durable aluminum die-cast body
- ▶ Adjustable rods for flexible positioning

KBT

ACCESSORIES

KBT Elektrik offers a wide range of accessories, especially for pull cord emergency stop switch systems, to ensure complete and reliable installation. These accessories are designed to be fully compatible with KBT pull cord switches and improve system functionality. Options include trip flags, lockout/tagout (LOTO) mechanisms, signal lamps, sirens, and other complementary components that support safe and efficient operation.

Typical applications:

- ▶ Short- and long-distance pull cord emergency stop installations
- ▶ Lockout/Tagout (LOTO) safety procedures
- ▶ Visual and audible warning systems
- ▶ Maintenance and service safety applications
- ▶ Areas requiring local emergency indication



Accessories

Product Variants and Features

Pull Cord Emergency Switch Accessories



Pull Cord Emergency Switch Accessories are complementary components used to improve the functionality, safety, visibility, and installation of pull cord emergency stop systems on conveyors and long machine lines. They are not the main switch itself; they support and optimize the complete system.

- ▶ PVC-coated steel cable for cable systems
- ▶ Galvanized or stainless connection hardware
- ▶ Flags and warning accessories for cable systems

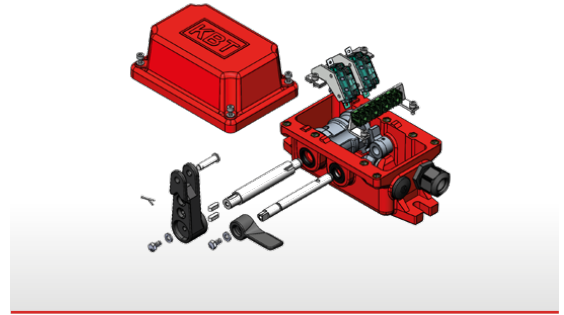
Limit Switch Accessories and Spare Parts



Limit switch accessories are complementary components designed to improve the mounting, protection, adaptability, and functionality of limit switches in industrial applications. They help ensure correct installation, environmental protection, and reliable operation under different working conditions.

- ▶ Signal lamps and sirens
- ▶ Lockout/Tagout (LOTO) mechanisms
- ▶ Trip flags
- ▶ Actuator and roller lever options
- ▶ Mounting brackets and fixing plates
- ▶ Cable glands and conduit adapters

Custom Solutions



KBT Elektrik also offers customized production solutions for specific application requirements. With flexible engineering and manufacturing capabilities, KBT develops project-based designs to meet special technical and operational needs across different industries.

- ▶ Project-based solutions
- ▶ Application-specific modifications, including adapter designs
- ▶ Custom color and paint options
- ▶ Customized control systems



Our Certificates

Use our products safely in your systems; they are manufactured in line with international safety standards and hold the required certifications.

Our products comply with internationally recognized standards and certifications including CE, UL, EAC, ATEX, ISO 9001 and ISO 14001.



References

We are proud to share some of our valued business partners from different regions of the world. Our success in the industry is built on the trust and support of customers who continuously contribute to our growth and improvement. With the satisfaction of seeing the lasting impact of our work, we continue our journey with greater commitment and momentum.

References

INNOMOTICS



Metso:Outotec





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