

SMART
S E R I E S



when reliability matters, choose

Smart solutions

for conveyor safety, protection & monitoring.



About Inelco International

History

Inelco designed and manufactured electronic products for the mining and industrial industry since 1999. We are continuously investing in research and development for new products. Our customers are our most important asset and we therefore continuously searching for better and more efficient ways to meet your requirements. Due to continues expansion, Bramco recently built a new factory and offices in Delmas. Our new purposely built facilities offer a spacious working environment suitable to take on large projects.

Installation and commissioning

Our installation and commissioning teams are highly professional, well trained and fully capable and rigged for installation and commissioning of our products. We take pride in our work and our strength has always been in the people that we employ.

Service and repairs

Good reliable products are no good if not complimented with service excellence. We have service technicians on a 24 hour backup basis to take care of any break downs on our products or systems. We have professional staff to do repairs on our equipment. Through our repair capabilities and facilities we offer an increased lifespan on our products.



Pull Wire Switch and Essentials

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Pull Wire Switch PULL TRIP TYPE

PK-AP / PK-PP / PK-PP EX



This Pullkey is a dual trip shaft pullkey where **each trip shaft is completely independent** from the other. For this Pullkey it is recommended to connect to pull trip cable from Pullkey to Pullkey.

This pull wire trip type Pullkey is available in both Marine Grade LM6 Aluminium (PK-AP) and UV resistant polycarbonate (PK-PP). The Polycarbonate Pullkey is also available Certified for Hazardous areas (PK-PP EX).



SIMPLE SET UP &
ADJUSTMENT



IP66/67 RATING



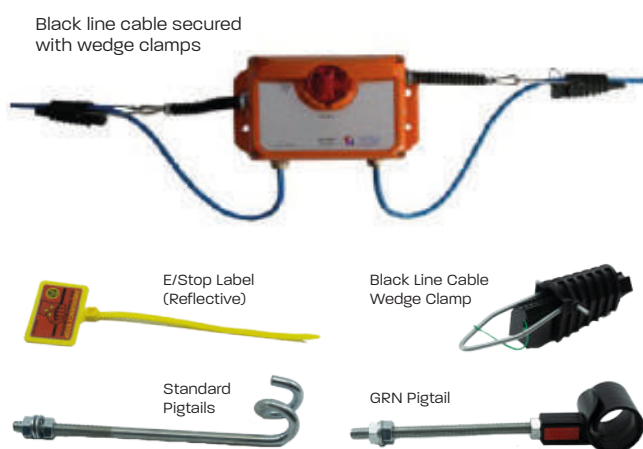
TEMPERATURE
& VIBRATION
COMPENSATION



SPACIOUS
COMPARTMENT

Smart Series Essentials

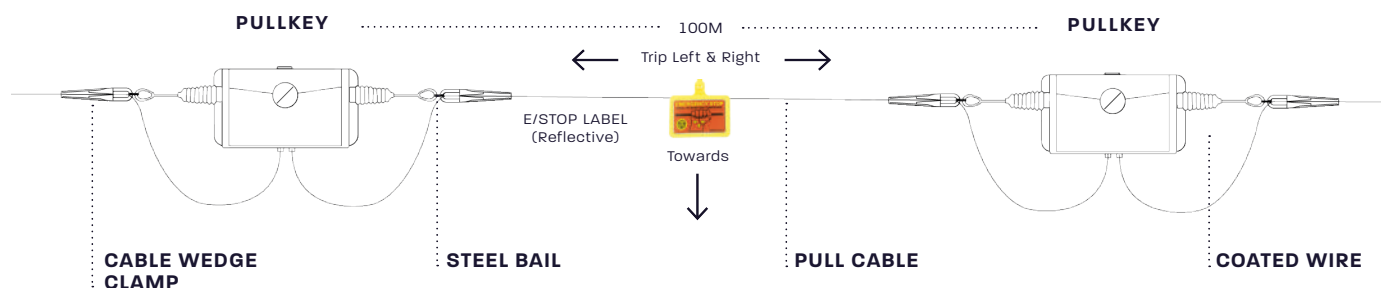
To complete the full conveyor control solution, please refer to our range of Smart Series Essentials that include **lanyard pull control cable, pigtails, cable wedge clamps and e/stop labels**.



Pull Wire Switch PULL TRIP TYPE

PK-AP / PK-PP / PK-PP EX

RECOMMENDED INSTALLATION



The Pull Cable Switch has been tested to trip under the following conditions:

- When the cable is pulled to the left or the right.
- Breaking or removal of the pull cable shall trip the conveyor (electrical disconnect)
- Pull force under 70 N at right angle between lanyard supports, with no more than 300mm movement.
- Pull force under 230 N along the axis of the wire
- Manual trip via reset knob.

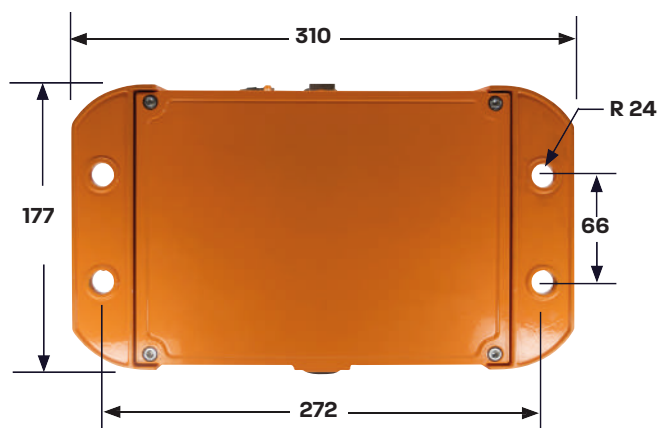
* An emergency stop label is required to be fitted every 30 metres on all conveyor pull wire trip systems (To ASNZS 4024.3610)

TECHNICAL SPECS

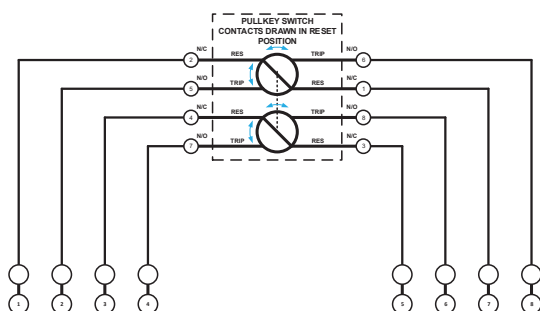
Complies with	AS/NZS 4024.3610:2015 BS EN ISO 13850:2008
Material	PK-AP - LM6 Marine Grade Aluminium Powder coated PK-PP/EX - UV Resistant Polycarbonate
IP Rating	IP66/67
SIL Capability	Third party testing in progress
Contact Rating	240V - 16A
Contacts	2 x N/C & 2 X N/O *Combination of any 4 contacts available on request
Ambient Temp	-40 +50

DIMENSIONS

255 x 170 x 50mm



WIRING DIAGRAM



Pull Wire Switch PULL TRIP TYPE

PK-AP / PK-PP / PK-PP EX

A CLOSER LOOK AT THE PULL KEY - OUTSIDE

NOTE:

The PK-AP is manufactured from LM6 Aluminium and the PK-PP from Polycarbonate which both exhibits excellent resistance to corrosion under both ordinary atmospheric and marine conditions.

All components inside these Pull Wire Switches are manufactured from non corrosive material such as Stainless steel, Nylon, Copper and Brass.

RUBBER BOOT

Rubber boot to prevent water and dust from entering the pullkey.

PRE START SIREN

OPTIONAL

STAINLESS THIMBLE

Crimps are finished with heat shrink.

LED INDICATION

OPTIONAL

LID LANYARD

The front lid equipped with an attached lanyard.

GLAND ENTRY

REFLECTIVE TAPE

Better visibility day/night

SCREW-IN LID

Stainless screws remain in the lid when upside down.

MECHANICAL FLAG

The flag consists of a reflective tape that is visible over a long distance at night to indicate a pullkey trip that complies with ASNZS 4024.3610 standards.

REAR COMPARTMENT

A CLOSER LOOK AT THE PULL KEY - INSIDE

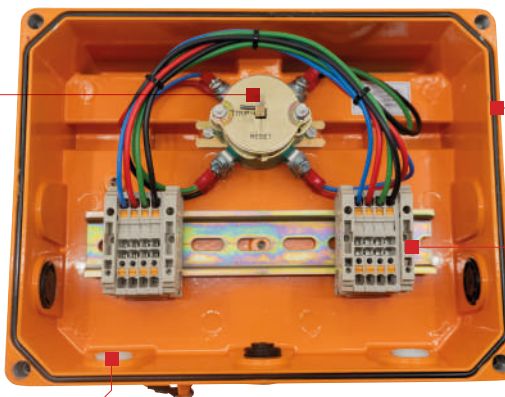
SWITCH

The switch has a knife action that cleans itself every time it switches.



GLAND ENTRY

- 3 Standard M20 Gland entries at bottom
- 2 Std M25 Gland entries on sides (Additional entries are optional)



SPACIOUS COMPARTMENT

225 x 170 x 50mm

Compartment allow for ease of termination and space to mount electronics (No need for additional junction box)

O RING SEAL

Both compartments are fitted with o-ring seal inside or on the lid to prevent moisture. (Rated IP66/67)

TERMINALS

Weidmuller A Series push-in technology terminals with galvanic isolation, pull-out, shock and vibration resistance.

Pull Wire Switch PULL TRIP TYPE

PK-AP / PK-PP / PK-PP EX

ASK ABOUT OUR OPTIONAL EXTRAS

- Contact Configuration (Any 4 contacts N/O or N/C).
- Pre-Start Sirens & LED Indication (Monitoring System Dependant).
- Pull Key Canopy – Additional UV and Mechanical Protection.
- Control Cable (System dependent).
- Trip Monitoring Options:
 - Inelco (SLC2, SLM3, SLM4).
 - Third party product (Client Preference).

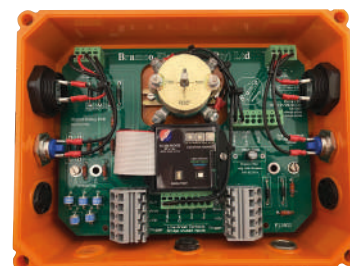


Canopy

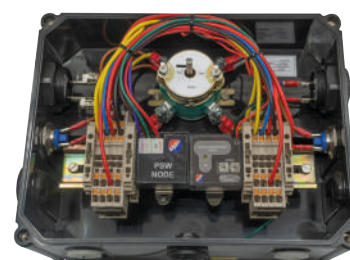
ORDERING DATA

Part No.	Description
SSPK-A-P-STD	PK-AP Pullkey, Aluminium, Pull Trip, Standard
SSPK-P-P-STD	PK-PP Pullkey, Polycarbonate, Pull Trip, Standard
SSPK-P-P-ExA	PK-PP Pullkey, Polycarbonate, Pull Trip, Standard, Ex
Contact us for more information	Monitoring Pullkey

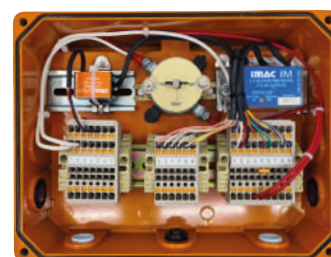
SAMPLES OF MONITORING OPTIONS



Inelco SLM4

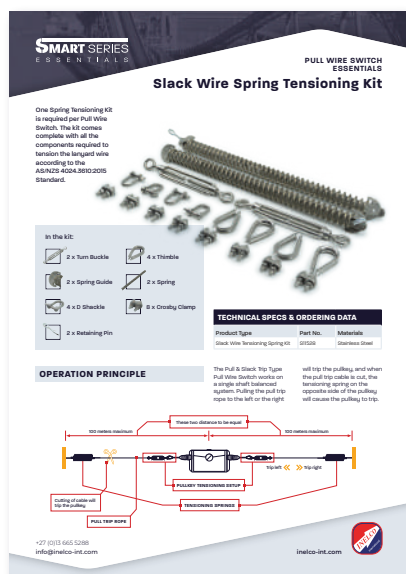


Inelco SLC/SLM3

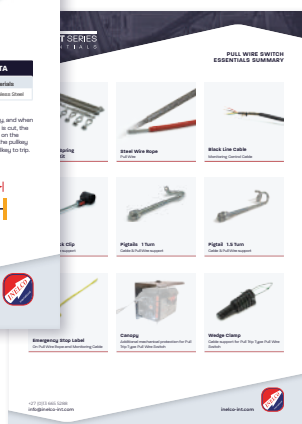


Third Party Product
(Client Preference)

SMART SERIES ESSENTIALS



Check out the
Smart Essentials
datasheets for more
information.



THE SMART SERIES

SMART PULL

Pull Wire Switch PULL & SLACK TRIP TYPE

PK-APS / PK-PPS / PK-PPS EX



Single trip shaft pullkeys where both ends of the shaft are to be connected to a tensioning spring in order to operate as a balanced system.

This pull and slack wire trip pullkey is available in both marine-grade LM6 aluminium (PK-APS) and UV-resistant polycarbonate (PK-PPS). The polycarbonate pullkey is also available IECEx-certified for hazardous areas (PK-PPS EX).



SIMPLE SET UP &
ADJUSTMENT



IP66/67 RATING



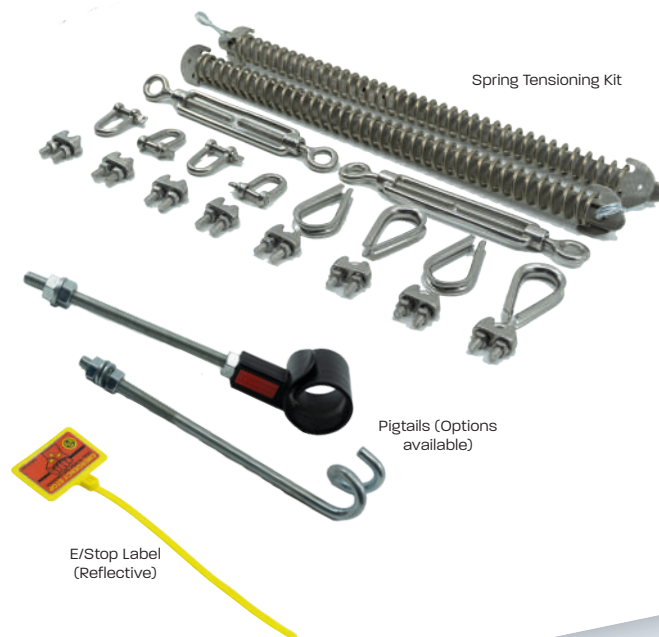
TEMPERATURE
& VIBRATION
COMPENSATION



SPACIOUS
COMPARTMENT

Smart Series Essentials

To complete the full conveyor control solution, please refer to our range of Smart Series Essentials that include **lanyard pull control cable, pigtails, cable wedge clamps and e/stop labels**.



Spring Tensioning Kit

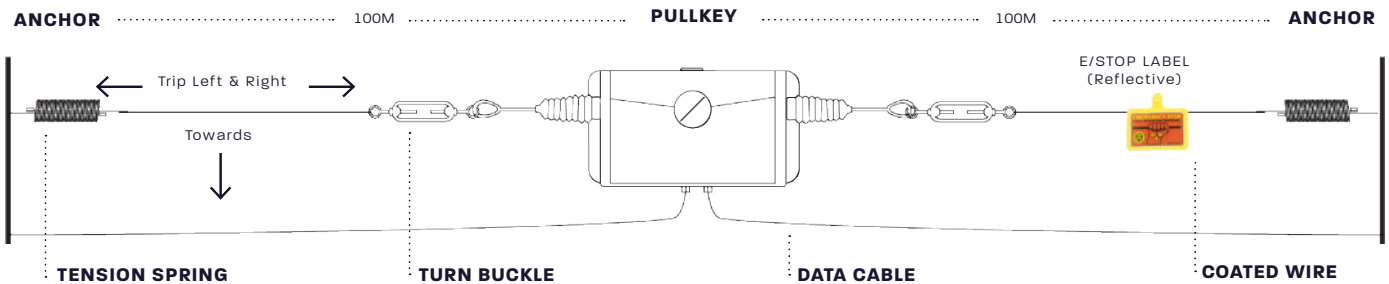
Pigtails (Options available)

E/Stop Label (Reflective)

Pull Wire Switch PULL & SLACK TRIP TYPE

PK-APS / PK-PPS / PK-PPS EX

RECOMMENDED INSTALLATION



The pull & slack wire switch has been tested to trip under the following conditions:

- Breaking, slacking or removal of the pull wire shall activate the device.
- The conveyor shall stop in the event of the pull wire being broken or removed.
- Pull force under 70N at right angle between lanyard supports, with no more than 300mm movement.
- Pull force under 230N along the axis of the wire.
- Manual trip via reset knob

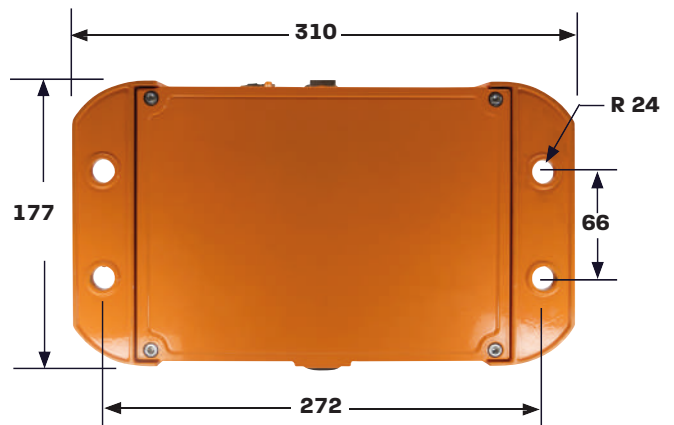
*An emergency stop label is required to be fitted every 30 metres on all conveyor pull wire trip systems (To AS/NZS 4024.3610)

TECHNICAL SPECS

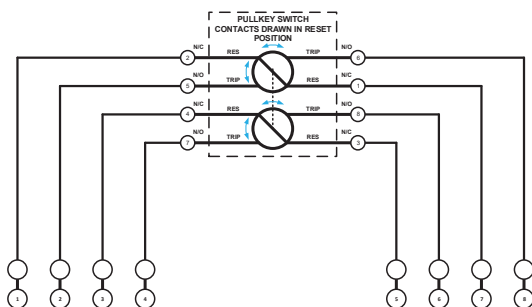
Complies With	AS/NZS 4024.3610:2015 BS EN ISO 13850:2008
Material	PK-APS - LM6 Marine-grade Powder Coated Aluminium PK-PPS/EX - UV-resistant Polycarbonate
IP Rating	IP66/67
SIL Capability	Third party testing in progress
Contact Rating	240V - 16A
Contacts	2 x N/C & 2 X N/O *Combination of any 4 contacts available on request
Ambient Temp	-40 to +50°C

DIMENSIONS

255 x 170 x 50mm



WIRING DIAGRAM



Pull Wire Switch PULL & SLACK TRIP TYPE

PK-APS / PK-PPS / PK-PPS EX

A CLOSER LOOK AT THE PULL KEY - OUTSIDE

The PK-APS is manufactured from marine-grade aluminium and the PK-PPS from polycarbonate. Both exhibit excellent resistance to corrosion under ordinary atmospheric and marine conditions.

All internal components are manufactured from corrosion-resistant material including stainless steel, nylon, copper and brass.

RUBBER BOOT

Rubber boot to prevent water and dust from entering the pullkey.

PRE START SIREN

OPTIONAL

STAINLESS THIMBLE

Crimps are finished with heat shrink.

LED INDICATION

OPTIONAL

LID LANYARD

The front lid equipped with an attached lanyard.

BALANCING LENS

The top of the pullkey is fitted with a lens to indicate when the shaft is in the balanced position.

SCREW-IN LID

Stainless screws remain in the lid when upside down.

MECHANICAL FLAG

The flag consists of a reflective tape that is visible over a long distance at night to indicate a Pullkey trip.

REAR COMPARTMENT

GLAND ENTRY

REFLECTIVE TAPE

Better visibility day/night

A CLOSER LOOK AT THE PULL KEY - INSIDE

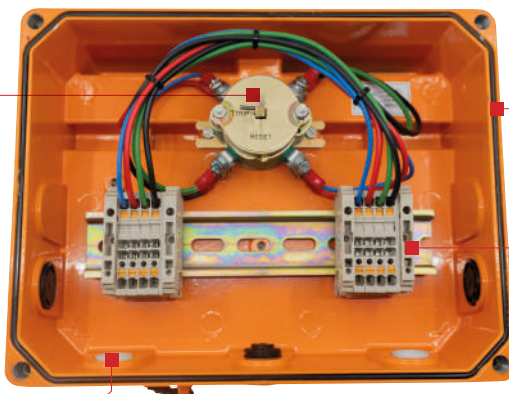
SWITCH

The switch has a knife action that cleans itself every time it switches.



GLAND ENTRY

- 3 Standard M20 Gland entries at bottom
- 2 Std M25 Gland entries on sides (Additional entries are optional)



O RING SEAL

Both compartments are fitted with o-ring seal inside or on the lid to prevent moisture. (Rated IP66/67)

TERMINALS

Weidmuller A Series push-in technology terminals with galvanic isolation, pull-out, shock and vibration resistance.

SPACIOUS COMPARTMENT

225 x 170 x 50mm (external measurements)
Compartment allow for ease of termination and space to mount electronics (no need for additional junction box)

Pull Wire Switch PULL & SLACK TRIP TYPE

PK-APS / PK-PPS / PK-PPS EX

ASK ABOUT OUR OPTIONAL EXTRAS

- Contact Configuration (Any 4 contacts N/O or N/C).
- Pre-Start Sirens & LED Indication (Monitoring System Dependant).
- Pull Key Canopy – Additional UV and Mechanical Protection.
- Control Cable (System dependent).
- Trip Monitoring Options:
 - Inelco (SLC2, SLM3, SLM4).
 - Third party product (Client Preference).

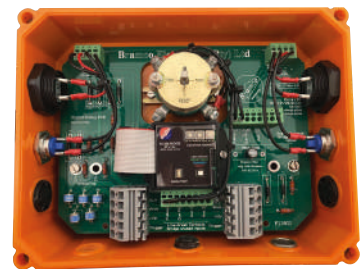


Canopy

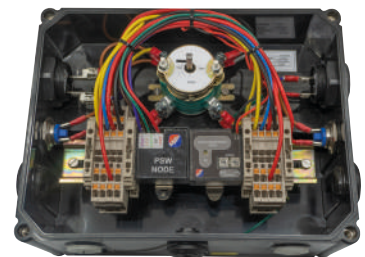
ORDERING DATA

Part No.	Description
SSPK-A-PS-STD	PK-APS Pullkey, Aluminium, Pull Trip, Standard
SSPK-P-PS-STD	PK-PPS Pullkey, Polycarbonate, Pull & Slack Trip, Standard
SSPK-P-PS-ExA	PK-PPS Pullkey, Polycarbonate, Pull & Slack Trip, Standard, Ex
Contact us for more information	Monitoring Pullkey

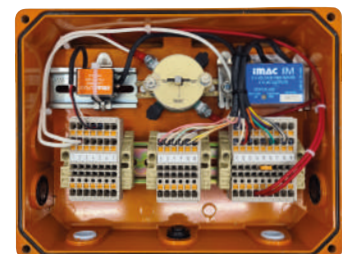
SAMPLES OF MONITORING OPTIONS



Inelco SLM4

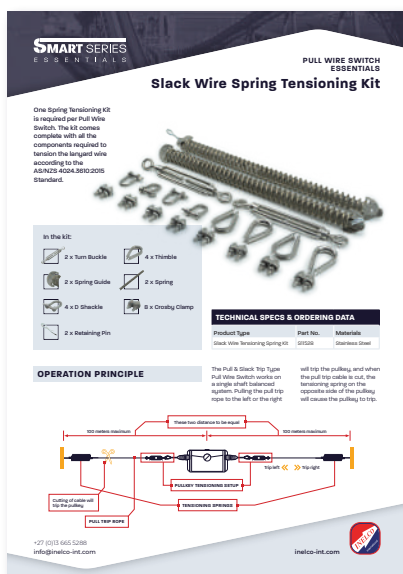


Inelco SLC/SLM3

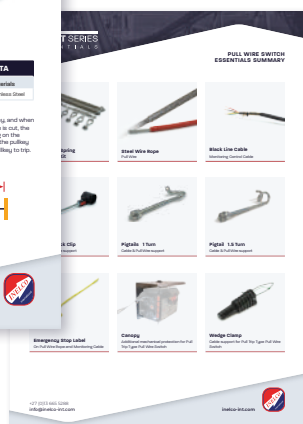


Third Party Product
(Client Preference)

SMART SERIES ESSENTIALS



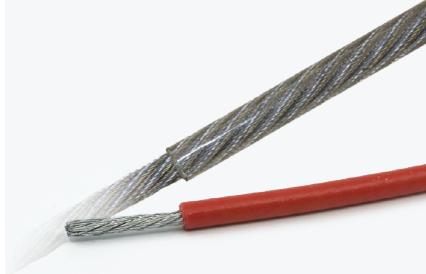
Check out the
Smart Essentials
datasheets for more
information.



PULL WIRE SWITCH ESSENTIALS SUMMARY



**Slack Wire Spring
Tensioning Kit**



Steel Wire Rope
Pull Wire



Black Line Cable
Monitoring Control Cable



Pigtail Quick Clip
Cable & Pull Wire support



Pigtails 1 Turn
Cable & Pull Wire support



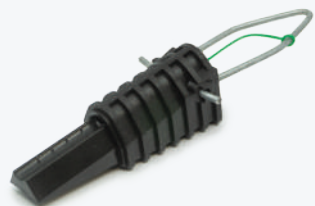
Pigtail 1.5 Turn
Cable & Pull Wire support



Emergency Stop Label
On Pull Wire Rope and Monitoring Cable



Canopy
Additional mechanical protection for Pull
Trip Type Pull Wire Switch



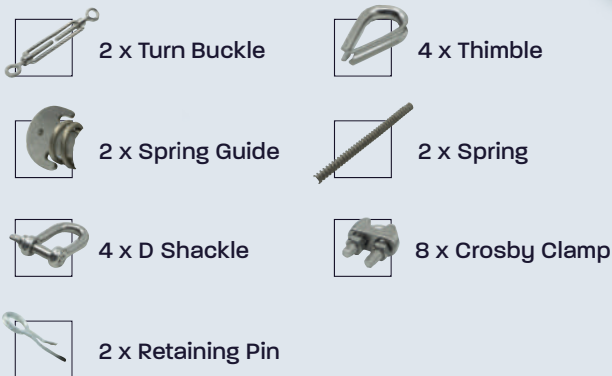
Wedge Clamp
Cable support for Pull Trip Type Pull Wire
Switch

Slack Wire Spring Tensioning Kit

One Spring Tensioning Kit is required per Pull Wire Switch. The kit comes complete with all the components required to tension the lanyard wire according to the AS/NZS 4024.3610:2015 Standard.



In the kit:



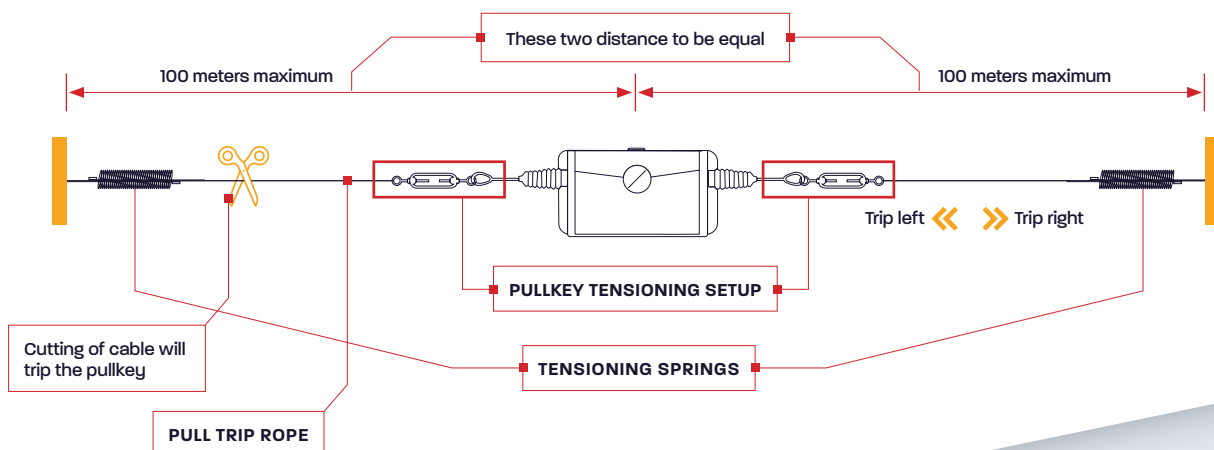
TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Materials
Slack Wire Tensioning Spring Kit	S11528	Stainless Steel

OPERATION PRINCIPLE

The Pull & Slack Trip Type Pull Wire Switch works on a single shaft balanced system. Pulling the pull trip rope to the left or the right

will trip the pullkey, and when the pull trip cable is cut, the tensioning spring on the opposite side of the pullkey will cause the pullkey to trip.



Steel Wire Rope

The steel wire rope is used as the pull wire rope for the Pull & Slack Type Pull Wire switch.

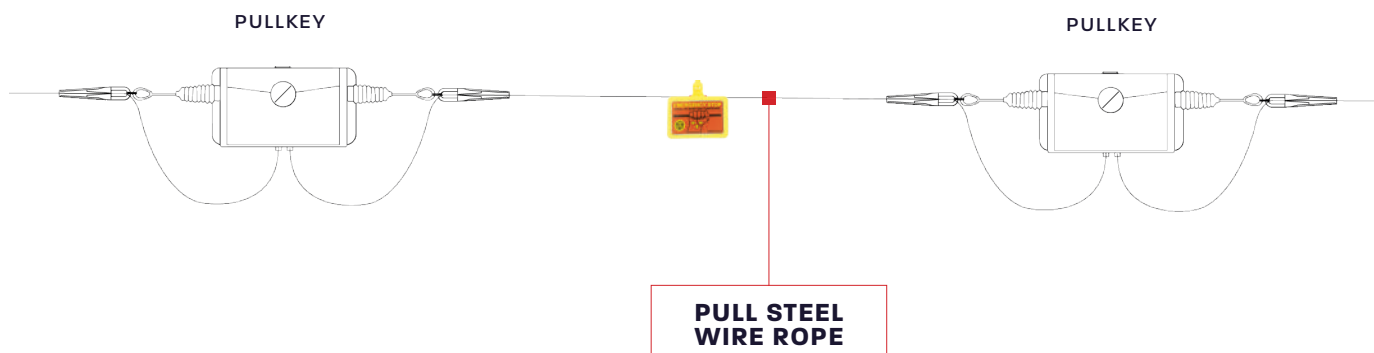


TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Material	Cover Material
Steel Wire Rope	R10456	Galvanised Steel	3mm, covered to 5mm with PVC Clear
	R10511		3mm, covered to 5mm with PVC Red
	R10512	Stainless Steel	3mm, covered to 5mm with PVC Red

*Steel Wire Rope available per meter in request.

RECOMMENDED INSTALLATION



Black Line Pullkey Cable MONITORING

Features

4 Core 0.75mm² conductor size,
PVC Bedding, PVC insulation, PVC outer sheath,
BPSWB, UV Stabilised Monitoring Pullkey Cable



TECHNICAL SPECS & ORDERING DATA

Product Code	Size	Core
R10467	0.75mm*	2 core
R10488		4 core
R10486		6 core
R10502		7 core

*The custom size and specification available on request..

CONSTRUCTION

Conductor	0.75mm ² conductor size : 10 strand tinned annealed copper.
Insulation	Polyvinyl chloride (PVC) compound in accordance with SANS 1411, Part 2.
Core identification	Red, Violet, Blue, Black and Brown colour insulated cores
Wrapping	Polyester tape
Bedding sheath	Polyvinyl chloride (PVC) compound in accordance with SANS 1411, Part 2, type B1. The standard bedding sheath colour is black.
Braid	Brass Plated Steel Wire Braid (BPSWB).
Outer sheath	Polyvinyl chloride (PVC) compound in accordance with SANS 1411, Part 2, type B1. The standard outersheathcolour is black.

ELECTRICAL CHARACTERISTICS

Conductor size (mm ²)	0.75
Conductor resistance at 20°C (Max Ω/km)	26.70
Test voltage Core to core (Vdc) Core to screen (Vdc)	1500 1500
Operating voltage (Max V)	500

PHYSICAL CHARACTERISTICS

Operating temperature (Max)	70°C
Fire retardancy	Comply to IEC 60332 part 3 Cat C
Bending radius (Min mm)	10 * Overall cable diameter

Pigtail Quick Clip

Pigtails are used to support the Pull Wire Monitoring Cable or Steel Wire Rope.

Quick Clip Pigtails allow you to easily install or remove without having to disconnect the wire or cable.



Complete with



2 x Nuts

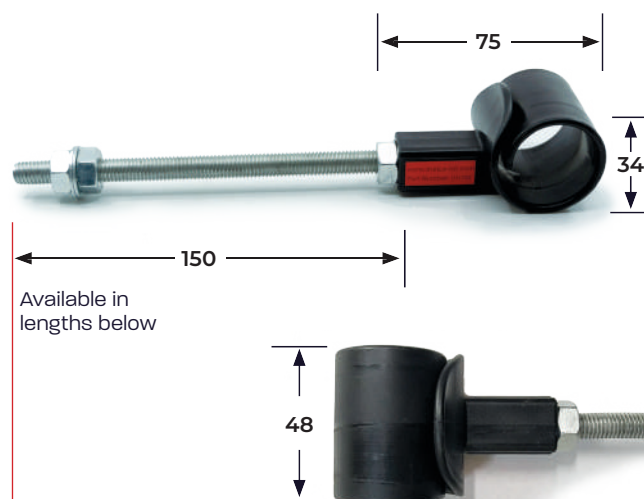


2 x Washers

TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Size	Materials
Quick Clip	S11755	M10 x 150mm	Electro Galvanised
	S11756	M10 x 200mm	
	S11757	M10 x 250mm	
	S11758	M10 x 300mm	
	S11759	M10 x 350mm	
	S11760	M10 x 150mm	Stainless Steel 304
	S11761	M10 x 200mm	
	S11762	M10 x 250mm	
	S11763	M10 x 300mm	
	S11764	M10 x 350mm	

DIMENSIONS



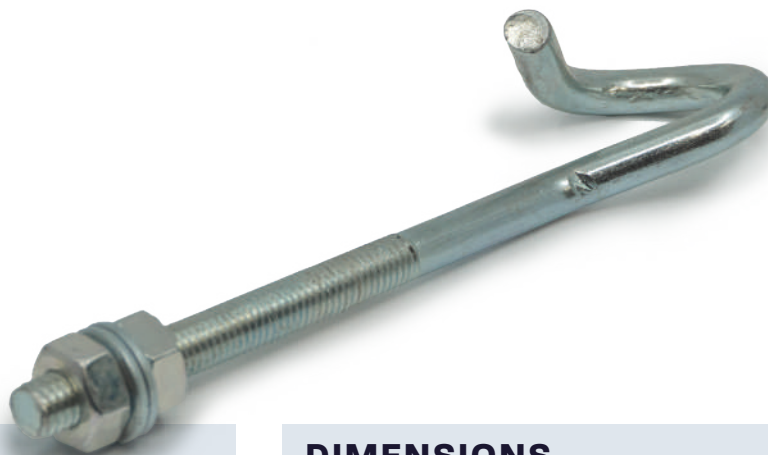
Standard lengths

150mm, 200mm, 250mm, 300mm & 350mm

Custom lengths
available on request.



Pigtails are used to support the Pull Wire Monitoring Cable or Steel Wire Rope.



Complete with



2 x Nuts

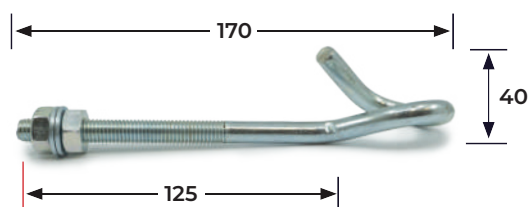


2 x Washers

TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Size	Materials
1 Turn	R10452	M10 x 125mm	Electro Galvanised
	R10454	M10 x 140mm	
	R10489	M10 x 200mm	
	R10544	M10 x 125mm	Stainless Steel 304
	R10546	M10 x 140mm	
	R10548	M10 x 200mm	
	R10550	M10 x 125mm	Stainless Steel 316
	R10552	M10 x 140mm	
	R10554	M10 x 200mm	

DIMENSIONS



Available in lengths below



Standard lengths

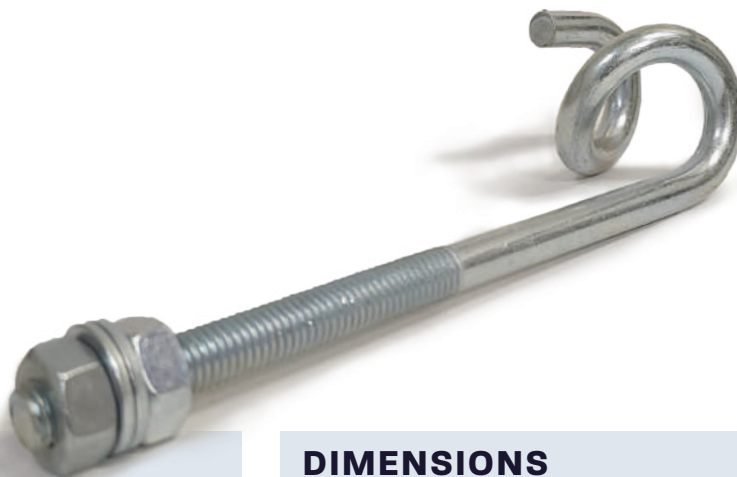
125mm, 140mm & 200mm



Custom lengths available on request.

Pigtail 1.5 Turn

Pigtails are used to support the Pull Wire Monitoring Cable or Steel Wire Rope.



Complete with



2 x Nuts

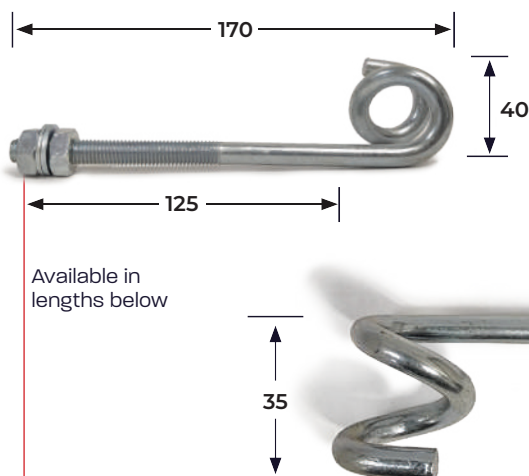


2 x Washers

TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Size	Materials
1.5 Turn	R10453	M10 x 125mm	Electro Galvanised
	R10455	M10 x 140mm	
	R10503	M10 x 200mm	
	R10545	M10 x 125mm	Stainless Steel 304
	R10547	M10 x 140mm	
	R10549	M10 x 200mm	
	R10551	M10 x 125mm	Stainless Steel 316
	R10553	M10 x 140mm	
	R10555	M10 x 200mm	

DIMENSIONS



Available in lengths below

Standard lengths

125mm, 140mm & 200mm

Custom lengths available on request.

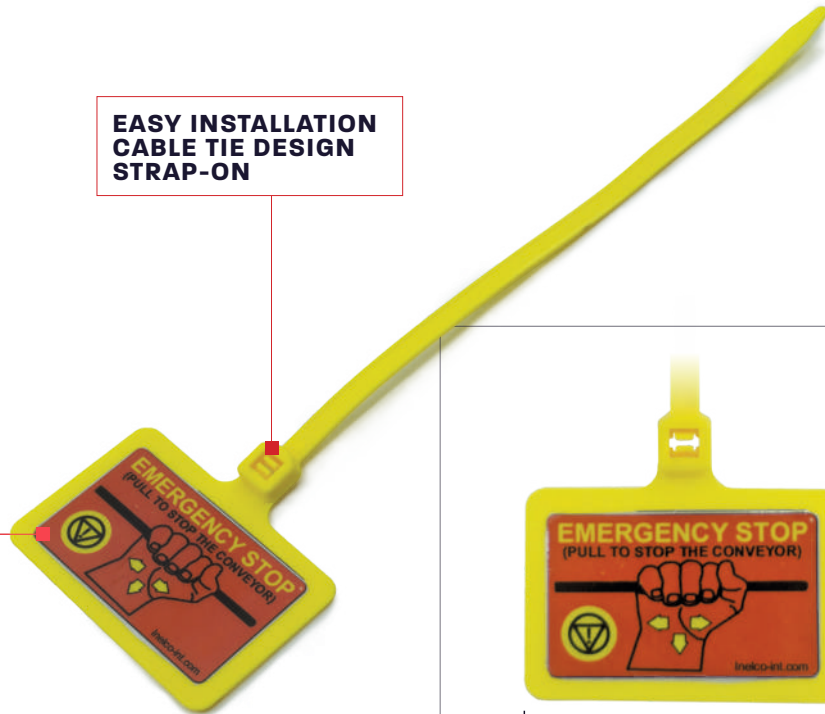


Emergency Stop Label

An emergency stop label is required every 30 meters on all conveyor systems that has more than one Pull Wire Switch (Compliance to AS/NZS 4024.3610:2015).

REFLECTIVE TAPE

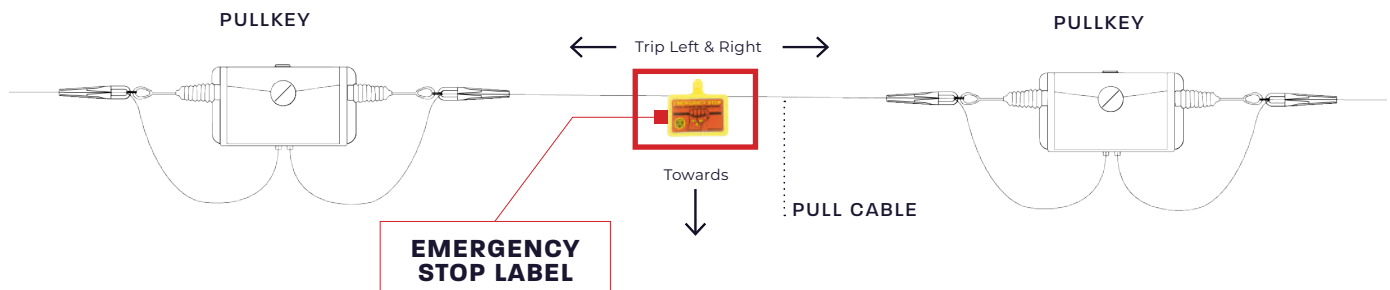
**EASY INSTALLATION
CABLE TIE DESIGN
STRAP-ON**



TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Feature
Emergency Stop Label	S11800	Reflective UV Stable

RECOMMENDED INSTALLATION



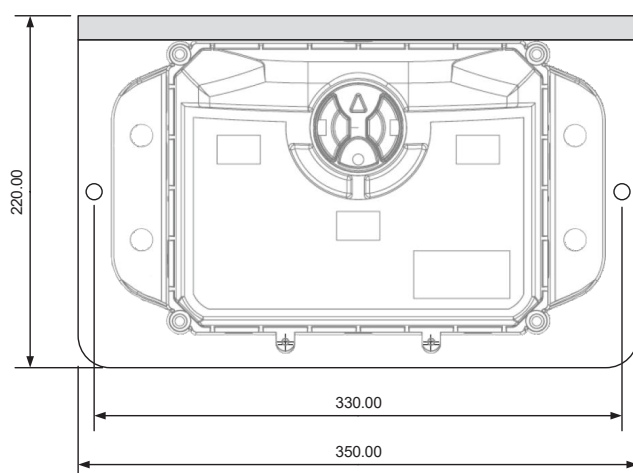
Additional mechanical protection for Pull Trip Type Pull Wire Switch.



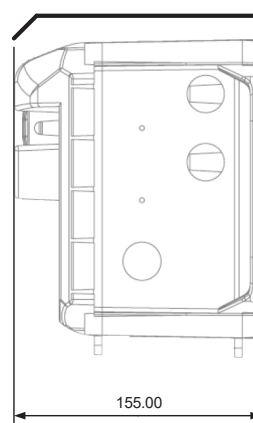
TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Range	Materials
Pullkey Canopy	S11734	Econo Range	Mild Steel Plated
	S11735		Stainless Steel

DIMENSIONS



FRONT VIEW



FRONTSIDE

Wedge Clamp

The Wedge clamp is used with the Pull Trip Type Pull Wire

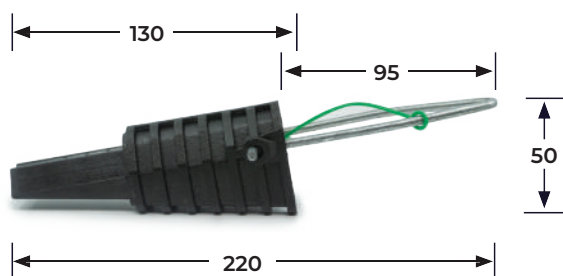
Switch as well as the Chute Block Detector Tilt Switch.

TECHNICAL SPECS & ORDERING DATA

Product Type	Part No.	Diameters
Wedge Clamp	R10450	7 - 13 mm
	R10451	9 - 19 mm



DIMENSIONS

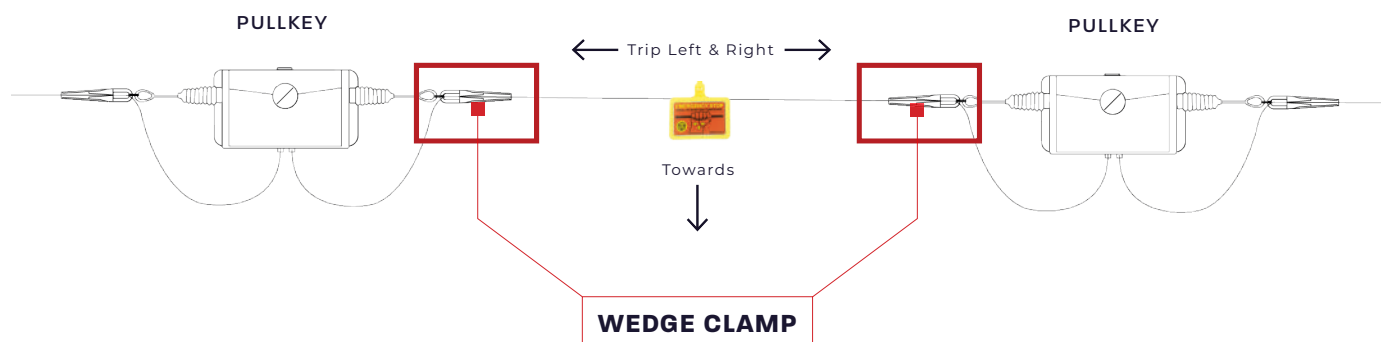


SIDE VIEW



TOP SIDE

RECOMMENDED INSTALLATION



Belt Misalignment Detector

BM-3 Smart Drift

The BM3 Smart Drift is designed to prevent the conveyor belt from drifting too far which could cause damage to the belt. When the conveyor belt drifts during start-up, or heavy load conditions, the edge of the belt will press against the BM-3 roller and cause, first a warning contact to operate at 10 ° and finally a trip contact to operate at 20°.

The BM-3 is made from extremely robust material. High Impact Glass Reinforced Nylon offers superior Thermal and UV resistance, Low water absorption, and a low environmental impact. It displays extremely good impact strength and dimensional stability.

All components of the BM-3 are made from non corrosive materials, such as Stainless, Brass, or Nylon.

The BM-3 Roller has a new weight distribution design that prevents whiplash strain on the roller arm. Capable of running at 22000 rpm this roller is suitable to be used on conveyors running at extremely high speeds.



TECHNICAL SPECS

Material	GFPA60BLK & Stainless
Material Mounting Bracket	Stainless
IP Rating	IP66/67
Contacts (Alarm)	SPDT
Contacts (Trip)	SPDT
Alarm Angle	10°
Trip Angle	20°
Contact Rating	3A @ 250VAC
Terminal Sizes	Up to 2,5mm ² Wire
Approved Safety Standards of Contacts	VDE (EN6058-1)
Switch Certifications	ENEC / UL Certified in accordance with: EN 61058-1:2016 EN IEC 61058-1:2018 UL 61058-1 UL60158-1-1 CSA C22.2 NO.61058-1-17 CSA C22.2 NO.61058-1-1-17



IP66/67
RATING



RoHS
COMPLIANT



DURABILITY



CHEMICAL
RESISTANT



CORROSION
RESISTANT



VIBRATION
RESISTANT



UV RESISTANT



EASY TO
INSTALL



SPACIOUS
COMPARTMENT

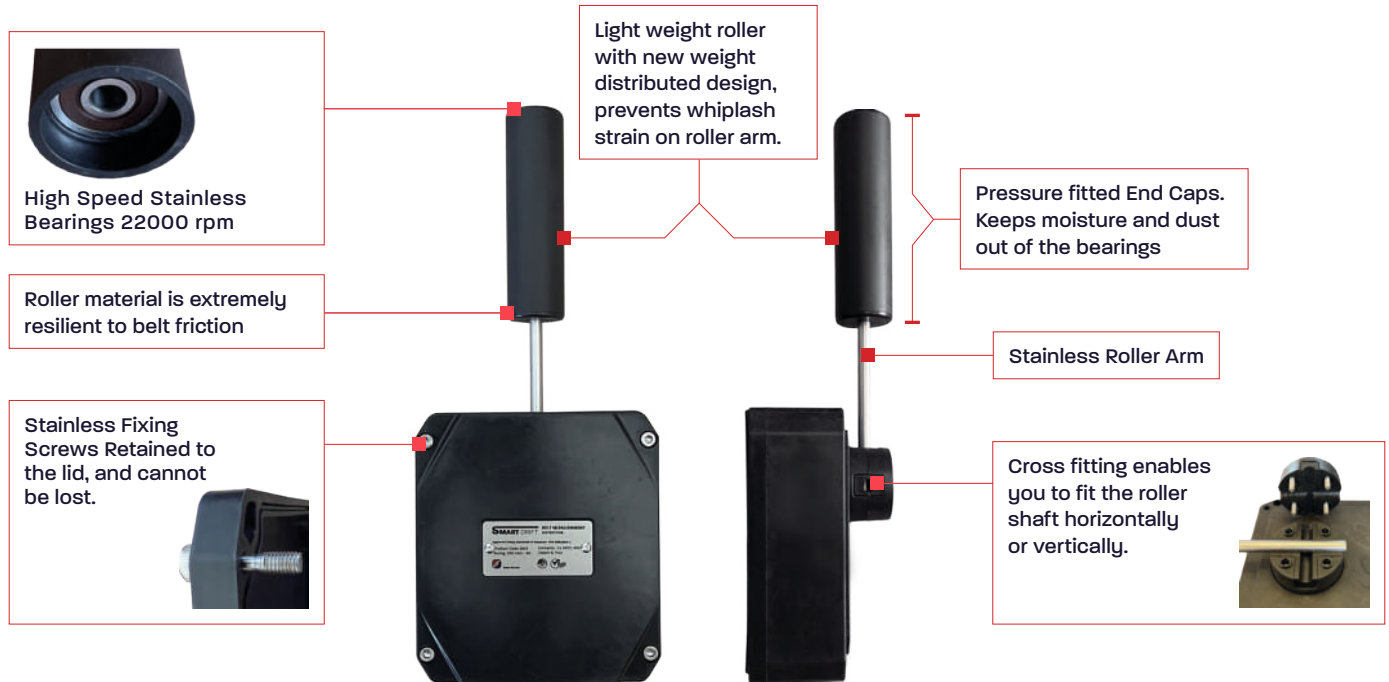


IMPACT
RESISTANT

Belt Misalignment Detector

BM-3 Smart Drift

A CLOSER LOOK AT THE BM-3 ON THE OUTSIDE

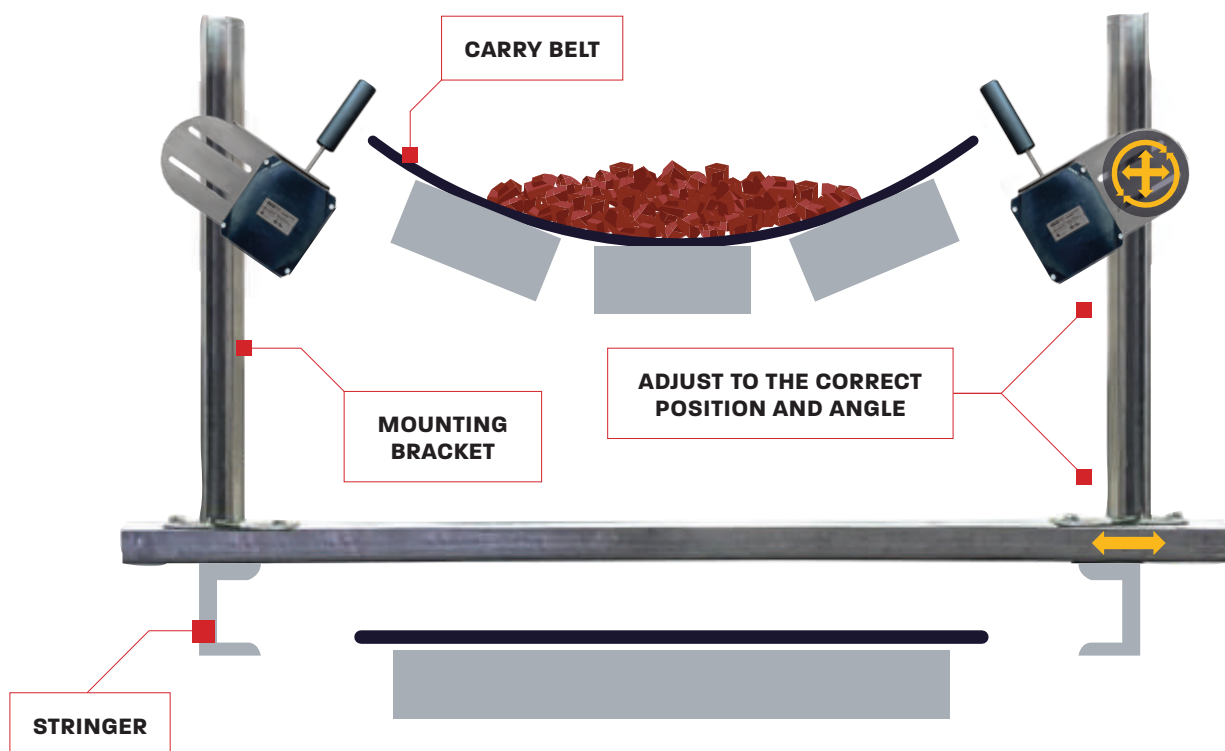


A CLOSER LOOK AT THE BM-3 ON THE INSIDE



Belt Misalignment Detector BM-3 Smart Drift

A CLOSER LOOK AT HOW IT WORKS



BM-3 TELESCOPIC MOUNTING BRACKET

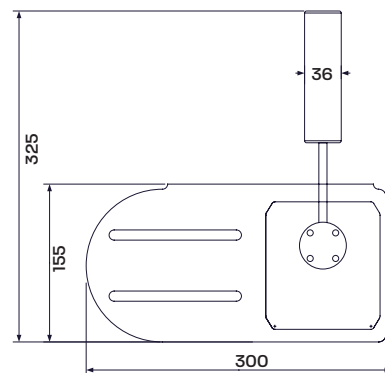
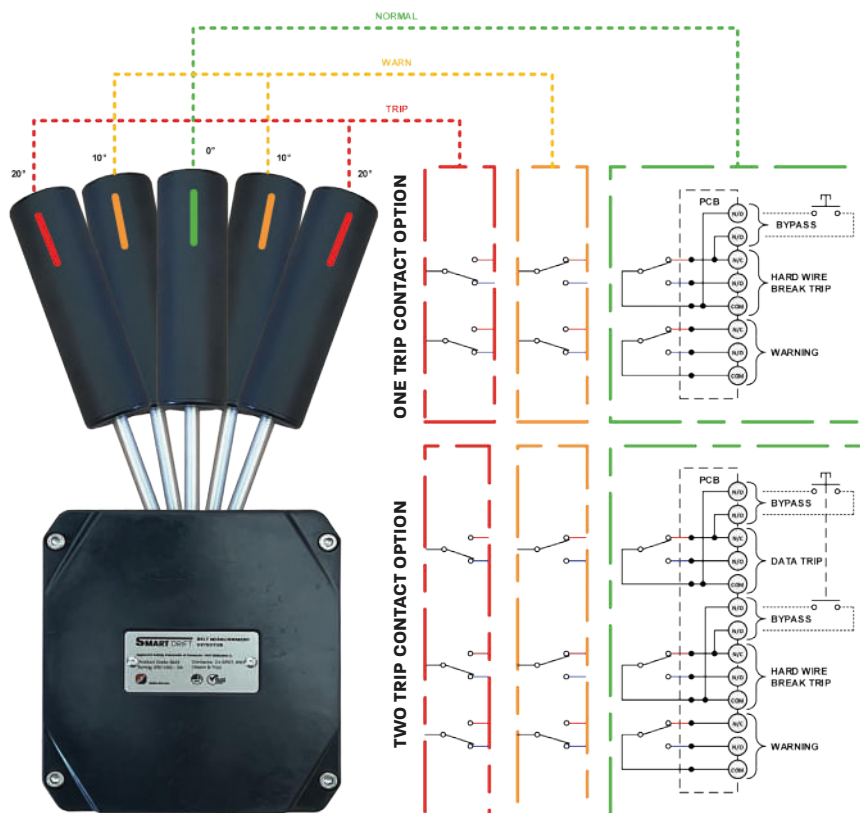


As an optional extra, a BM-3 Telescopic Mounting Bracket can be purchased, with your BM-3 Belt Misalignment Switches. This mounting bracket is designed to cover all belt widths up to 2200mm. Wider assemblies are available on request.

Belt Misalignment Detector

BM-3 Smart Drift

BM-3 WIRING DIAGRAM



ORDERING DATA

Part Number	Description
S11819	BM-3 Smart Drift, with one trip & warn contact
S11820	BM-3 Smart Drift, with one trip & warn contact (Set of two)
S11821	BM-3 Smart Drift, with two trip & one warn contacts
S11822	BM-3 Smart Drift, 2 trip, 1 warn (Set)
S11743	BM-3 Telescopic Mounting Bracket, 2.2m, Stainless
S11744	BM2 Telescopic Mounting Bracket, 3m, Stainless
S11745	BM2 Telescopic Mounting Bracket, 2.2m, Galvanized
S11746	BM2 Telescopic Mounting Bracket, 3m, Galvanized
S11823	BM-3 Bypass Push Button Station

Belt Rip Detector

BRC1 - Smart Rip

The Belt Rip Detector withstands the toughest conditions that typically exist on conveyor belts including dust, mud, and chemicals.

On belt rip detection, the pin is pulled from its spring-loaded bearing position to activate the switch. The belt rip detector is supplied with a complete installation kit, including chain or cable.

Key features include:

- Pin shearing is avoided as the pin box swivels in the direction of the pull action.
- Solid pin lock mechanism with spring loaded ball bearings.
- Maintenance-free.
- Quality IP67 UL/ENEC certified switch
- Vibration-resistant spring tensioned terminals



**IMPACT
RESISTANT**



**CORROSION
RESISTANT**



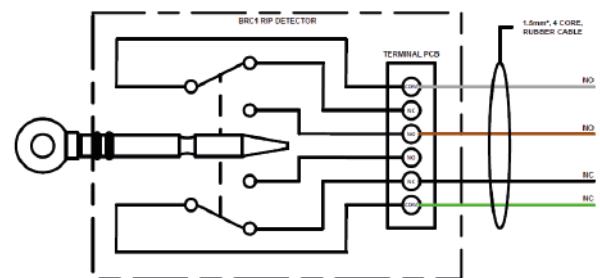
UV RESISTANT



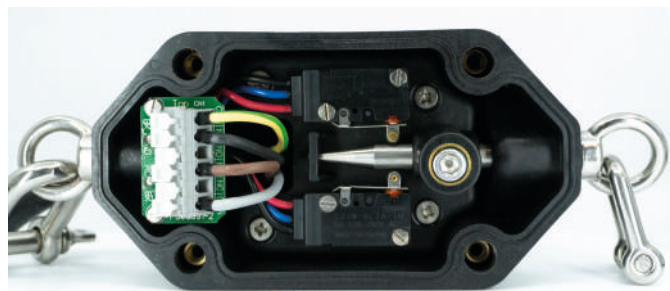
**CHEMICAL
RESISTANT**



STANDARD SWITCH CONTACTS



A CLOSER LOOK AT THE BRC1



Switch Connections

Pin is held in position with spring-loaded ball bearings.



O-Ring Seals

Two seals maintain a IP67 rating whilst pin is secured.



Lid Screws

Remains attached to the lid and cannot lose easily.

TECHNICAL SPECS

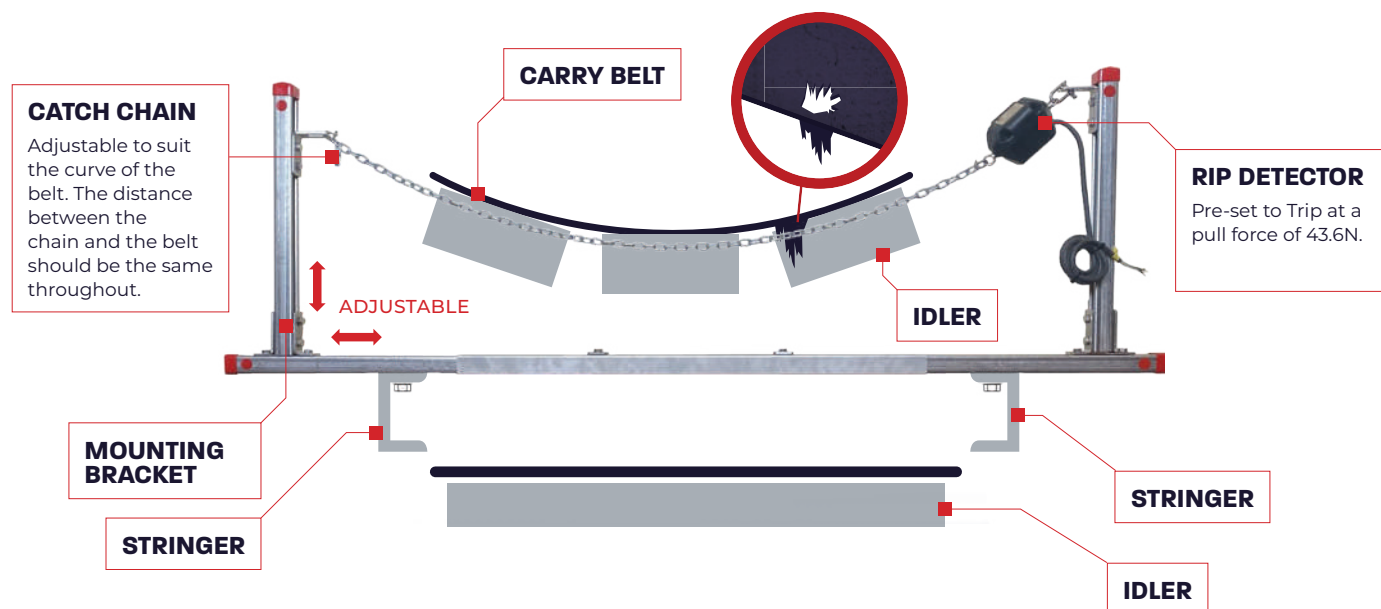
Switches Complies with	ENEC / UL Certified in accordance with: EN 61058 - 1 - 1:2016 EN IEC 61058 - 1:2018 UL 61058 - 1 UL60158 - 1 - 1 CSA C22.2 NO.61058 - 1 - 17 CSA C22.2 NO.61058 - 1 - 1 - 17
Material	High impact glass reinforced nylon enclosure, all other components stainless steel & brass
IP Rating (Enclosure)	IP66 & IP67
IP Rating (Contacts)	IP67
Contact Rating	3A @ 250VAC
Contacts	2 x SPTD Contacts
Pull Pin Force	43.6N
Enclosure Size	145mm (L) x 76mm (W) x 100mm (H)

Belt Rip Detector

BRC1 - Smart Rip

RECOMMENDED INSTALLATION

*Refer to installation manual for more information.



ORDERING DATA

Belt Rip Detector Options

BRC1 Belt Rip Detector c/w 2 m Galvanised Chain	S11507A
BRC1 Belt Rip Detector c/w 3 m Galvanised Chain	S11507A-3M
BRC1 Belt Rip Detector c/w 2 m Stainless/S Chain	S11508A
BRC1 Belt Rip Detector c/w 3 m Stainless/S Chain	S11508A-3M
BRC1 Belt Rip Detector c/w 4 m Galvanised Chain *other cable lengths available upon request.	S11506A

Mounting Bracket Options

BRC1 Telescopic Mounting Bracket, 2.2m Stainless/S	S11739
BRC1 Telescopic Mounting Bracket, 3m Stainless/S	S11740
BRC1 Telescopic Mounting Bracket, 2.2m Galvanised	S11741
BRC1 Telescopic Mounting Bracket, 3m Galvanised	S11742

ASK US ABOUT THE FULL BELT RIP DETECTOR SOLUTION.

To complete the full solution, consider our **Telescopic mounting brackets**. This mounting bracket is designed to cover all belt widths up to 2200mm. Wider assemblies are available on request. Contact our team for more information.



The Smart Guard is designed to stop the conveyor belt or prevent it from starting when a side guard has been removed for maintenance. This protects workers from accessing pulley systems whilst the conveyor belts are running.

The conveyor will not start until the steel wire rope is stringed through the gate hanger and the pin has been pushed back into position.

Where the steel wire rope needs to go around corners, the Inelco Corner Pulley can be used. For larger scale guards, the SGR-DS allows the trip action to activate by pulling one side, instead of needing to re-string about the full guard.

Features include:

- Multiple side guards covered with one switch.
- Solid pin lock mechanism with spring loaded ball bearings.
- Maintenance-free design.
- IP67 UL/ENEC certified switch
- Vibration-resistant spring-tensioned switch terminals



**IMPACT
RESISTANT**



**CORROSION
RESISTANT**

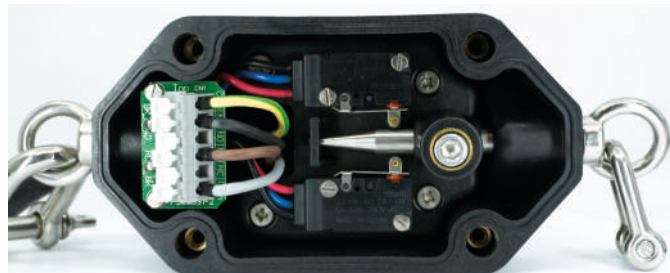


UV RESISTANT



**CHEMICAL
RESISTANT**

A CLOSER LOOK



Switch Connections

Pin is held in position with spring-loaded ball bearings.



O-Ring Seals

Two seals maintain a IP67 rating whilst pin is secured.

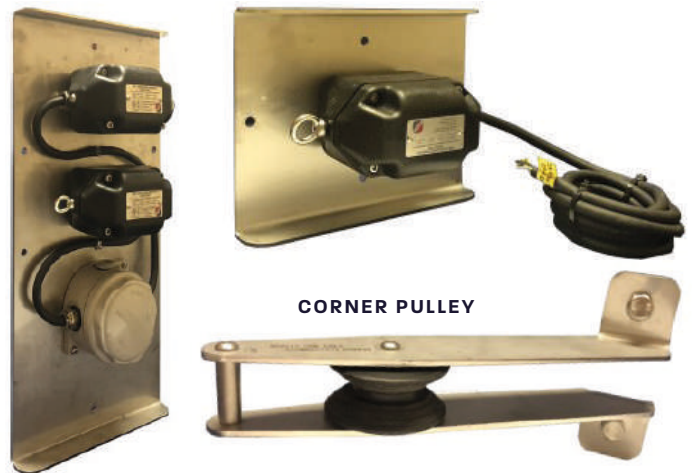


Lid Screws

Remains attached to the lid and cannot lose easily.

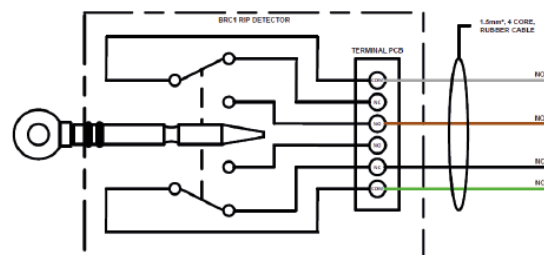
Guard Removal Detector

SGR-DS & SGR-SS Smart Guard



CORNER PULLEY

STANDARD SWITCH CONTACTS



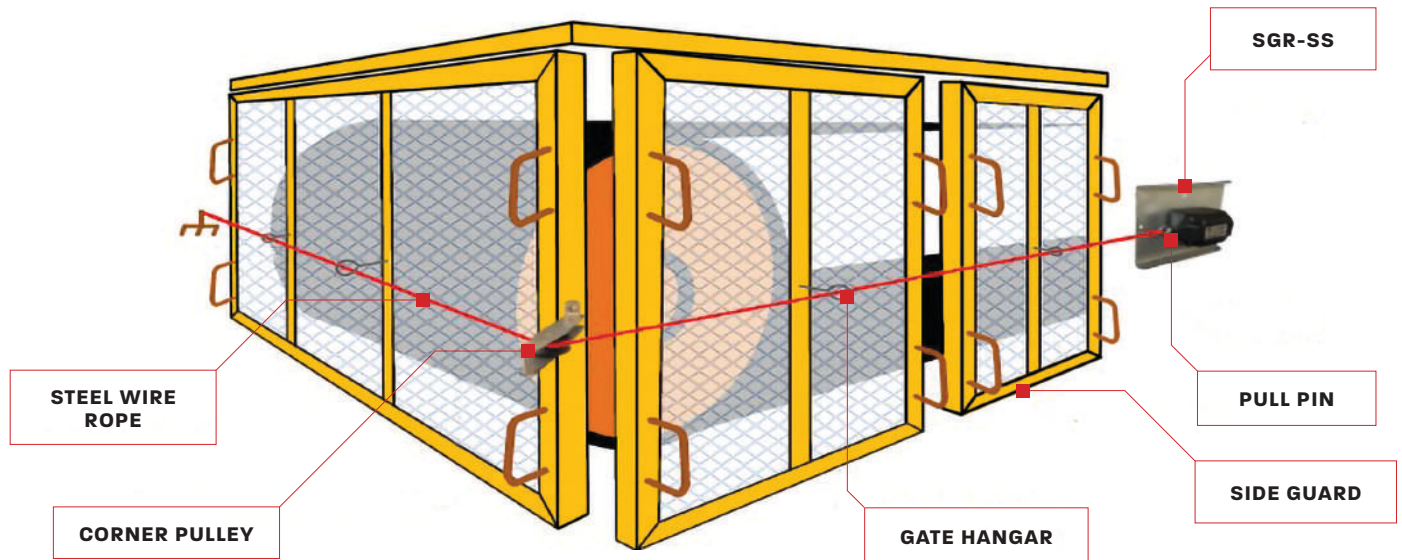
TECHNICAL SPECS

Switches Complies with	ENEC / UL Certified in accordance with: EN 61058-1-1:2016 EN IEC 61058-1:2018 UL 61058-1 UL60158-1-1 CSA C22.2 NO.61058-1-17 CSA C22.2 NO.61058-1-1-17
Material	High Impact Glass Reinforced Nylon Enclosure, All other components Stainless Steel & Brass
IP Rating (Enclosure)	IP66 & IP67
IP Rating (Contacts)	IP67
Contact Rating	3A @ 250VAC
Contacts	2 x SPTD Contacts
Pull Pin Force	43.6N
Enclosure Size	145mm (L) x 76mm (W) x 100mm (H)

Guard Removal Detector

SGR-DS & SGR-SS Smart Guard

RECOMMENDED INSTALLATION



The SGR internal switches operate when the pull pin has been pulled out. The pull pin is held into position with spring loaded ball bearings that keeps it into position. The pull pin is attached to a steel wire rope that is stringed through gate hangers that are attached to the side guards.

When a side guard is removed whilst the conveyor is running, the steel wire rope will pull the pin that will trip the conveyor. The conveyor will not be able to start until the pin has been pushed back into position. The eye nut of the pull pin moves freely through the gate hanger holes.

*Refer to installation manual for more information

ORDERING DATA

Guard Removal Detector Options

SGR-SS Single Side Guard Removal Detector c/w 30m Cable	S11654A
SGR-DS Double Side Guard Removal Detector c/w 60m Cable	S11656A
Side Guard Removal Detector Corner Pulley, 304 S/S	S11638
Gate Hangers, M10 x 150mm, Galvanised Steel	R10509
Gate Hangers, M10 x 150mm Stainless Steel	R10527
Thimble, 5mm Galvanised Steel	R10498
Thimble, 5mm Stainless Steel	R10459
Crosby Clamp, 5mm Galvanised Steel	R10457
Crosby Clamp, 5mm Stainless Steel	R10458
Pull Wire, 3mm Galvanised Steel, covered to 5mm with PVC Clear	R10456
Pull Wire, 3mm Galvanised Steel, covered to 5mm with PVC Red	R10511
Pull Wire, 3mm Stainless Steel, covered to 5 mm, PVC Red	R10512

Spillage Detector

FEED BELT - FBS

The FBS Belt Tear and Spillage Detector is designed to catch spilled material that falls through a torn conveyor belt. These tears normally happen in the length of the belt and the weight of the material normally pushes the tear open causing the material to fall through. The weight of the material in the basket will cause the basket to tilt backwards and a limit switch under the basket will activate a contact that will stop the conveyor.

These units are normally installed close after conveyor loading points.

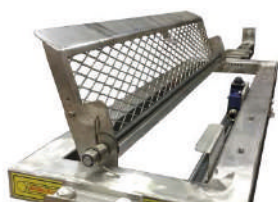


A Closer look at how it works



Basket

Tilts backwards on contact with spilled material. Designed with grid base to avoid nuisance trips from dust build up.



Resetting

Cleaned by bending the retaining clip forward and tilting the basket backwards.



Basket Retainer

Basket retaining clip keeps the basket secured down – preventing flipping from strong winds.



Width Adjustments

End clamps makes the mounting width of the unit adjustable for ease of installation.



Height Adjustment

Side mounting brackets attached to unistrut upright posts to enable height adjustment.



Concealed Wiring

Wiring is concealed inside the structure frame for protection against the moving conveyor belt and falling materials.



Trip Switch

IP65 with a rubber boot for protection against water, dust, and mud. (Available in Magnetic Proximity switch)



IP65 RATED



EASY INSTALL & MAINTENANCE FREE



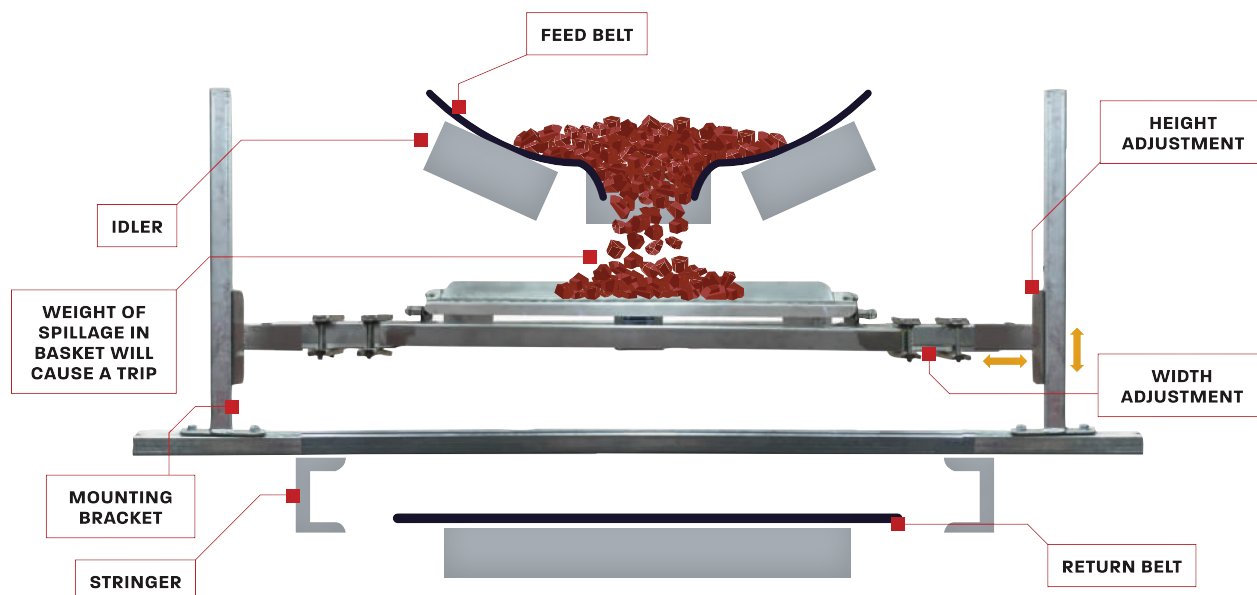
QUICK CLEAN & RESET OPERATIONS

Spillage Detector

FEED BELT - FBS

RECOMMENDED INSTALLATION

*Refer to installation manual for more information.



ORDERING DATA

Feed Belt Detector

Feed Belt Spillage Detector Stainless/S c/w Plunger Switch	S11514
Feed Belt Spillage Detector Stainless/S Proxy Type	S11578

Telescopic Mounting Bracket

Telescopic Mounting Bracket 2.2m Galvanised	S11749
Telescopic Mounting Bracket 2.2m Stainless/S	S11747
Telescopic Mounting Bracket 3m Stainless/S	S11748
Telescopic Mounting Bracket 3m Galvanised	S11750

TECHNICAL SPECS

Material	Stainless Steel
Material (Contacts)	Silver Plated
IP Rating	IP65
Contact Operation	Snap Action
Contact Rating	1.5A @ 240VAC
Contacts	1 x NO & NC
Trip Weight (Approx)	1.5kg
Cable Length	6m
Operating Temperature	-25°C to + 70°C
Dimensions & Weight (Packed)	1340mm (L) x 520mm (W) x 160mm (H) Weight 16Kg
Dimensions (Assembled)	Adjustable 1345-2000mm (L) x 155mm (H) x 290mm (W)

ASK US ABOUT THE FULL BELT TEAR DETECTOR SOLUTION.

To complete the full solution, consider our **Telescopic mounting brackets**. This mounting bracket is designed to cover all belt widths up to 2200mm. Wider assemblies are available on request. Contact our team for more information.

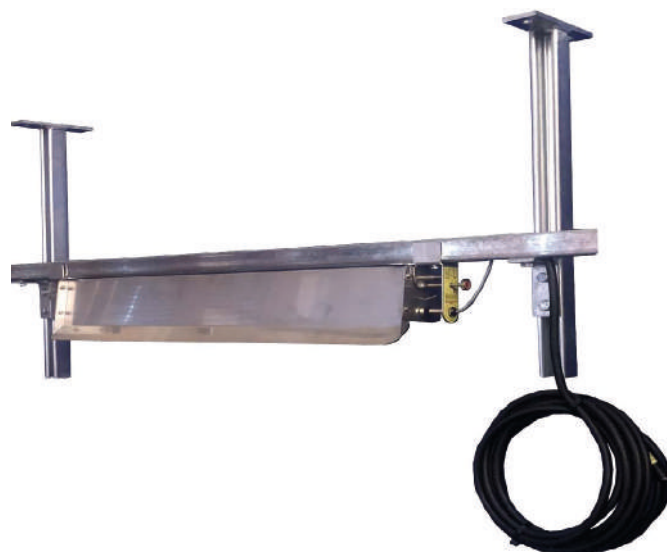


Spillage Detector

RETURN BELT - RBS

The RBS Return Belt Spillage Detector is designed to detect tears that occurred in the feed belt of a conveyor belt. Material spillage fallen onto the return belt causes the catch plate to tilt back. A magnet attached to the catch plate is aligned with a proximity switch wired into the signal line which will stop the belt immediately.

A mechanical latch mechanism will keep the RBS in the trip position until it has been reset.



FEATURES



EASY INSTALL & MAINTENANCE FREE



IP68 RATED SWITCH

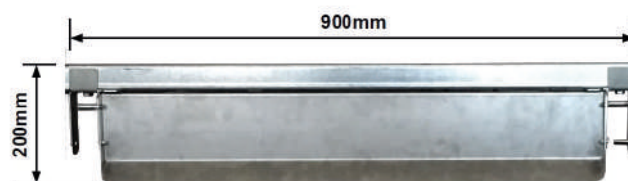


ADJUSTABLE BRACKETS, PLATE TENSION & SENSITIVITY



QUICK CLEAN & RESET OPERATIONS

DIMENSIONS



A Closer look at how it works



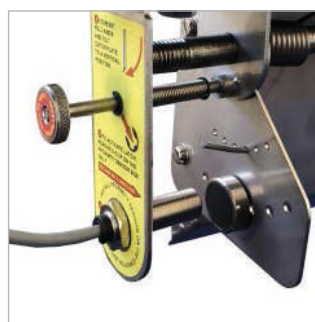
Magnetic Proximity

When the catch plate swivels backwards the magnet will swing out of the range of the proximity switch and trip the belt.



Tilt Resistance

Spring Tension on the catch plate is adjustable by clipping the ends of the springs through a hole.



Trip Latch

In the event of a trip, the mechanism will latch in the tripped position and needs to be reset by pulling the reset knob.



Height Adjustments

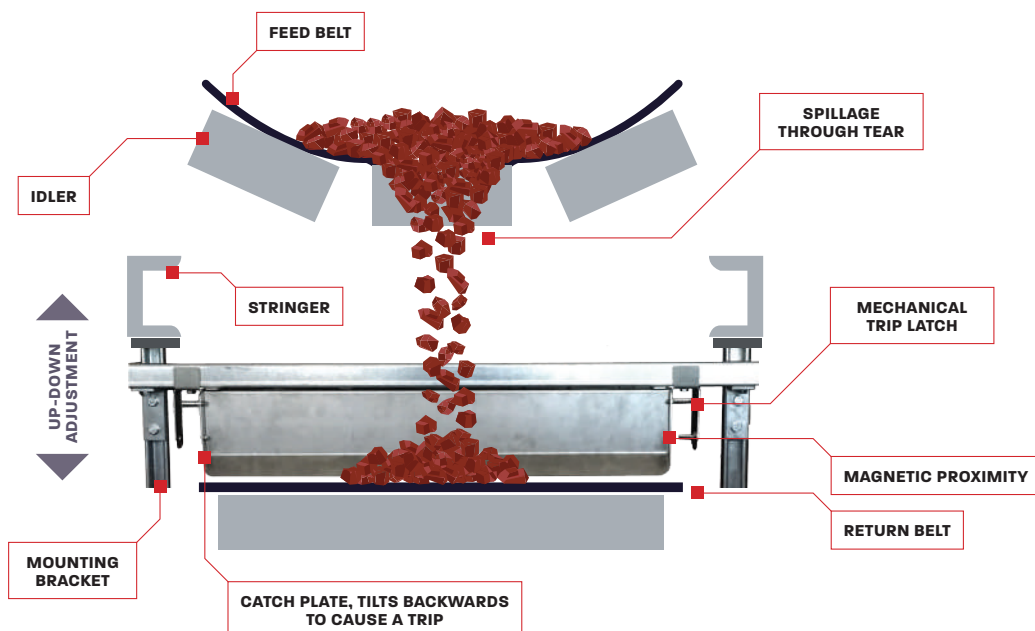
Adjustments are made by moving the detector through the unistrut slots and by fastening the bolts.

Spillage Detector

RETURN BELT - RBS

RECOMMENDED INSTALLATION

*Refer to installation manual for more information.



TECHNICAL SPECS (MECHANISM)

Material	Stainless Steel
Tilting Angle	90°
Tilting Resistance	Adjustable to 2.5Kg
Trip Angle	Adjustable 18° - 32°
Contact Rating	110 - 240VAC / 24VDC

WIRING DIAGRAM



TECHNICAL SPECS (SWITCH)

Trip Switch Type	Magnetic Proximity
IP Rating	IP67
Contact Rating	0.1A @ 30VDC or 0.01 A @ 250VAC
Contacts	1 x SPDT
Cable Length	2m
Operating Temperature	-20°C to +60°C

ORDERING DATA

Return Belt Spillage Detector

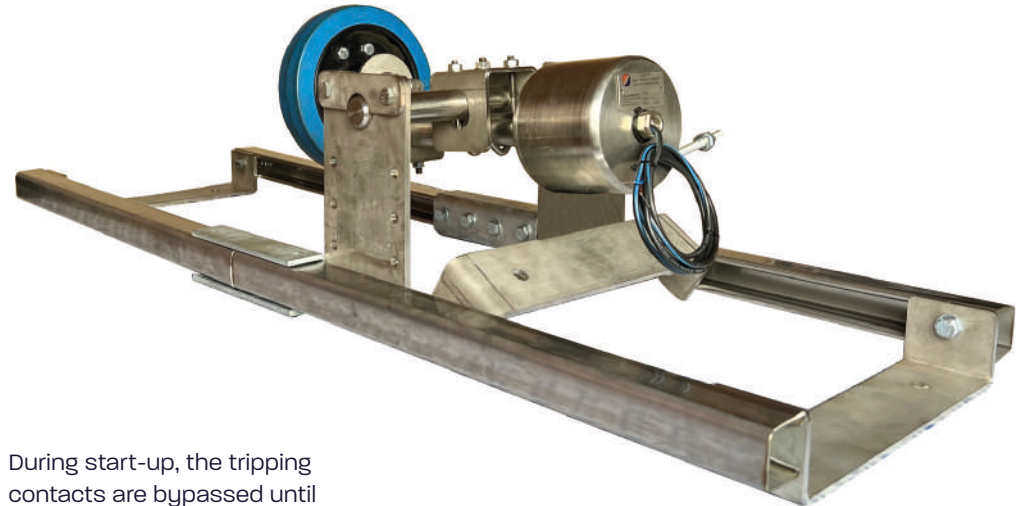
RBS Return Belt Spillage Detector Stainless/S
(includes mounting brackets)

S11627

Belt Speed Detector SS-3 SMART SPEED

The SS-3 Belt Speed Detector is designed to monitor the speed of conveyor belts and detect under-speed or drive pulley slip conditions (which is normally caused by belt overloading). The belt will trip on Slip detection. They can also be used as a sequence switch to signal the start of an in-bay belt when the out-bay belt is up to speed.

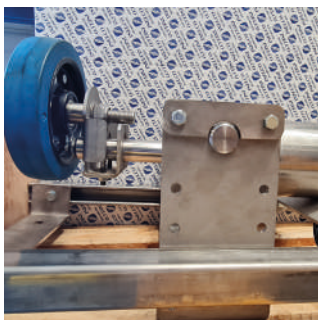
For slip or under speed detection, the controller is set up to trip when the belt speed drops down below its normal full load operating speed.



During start-up, the tripping contacts are bypassed until the belt is on full speed. If belt slip occurs during start up the belt will trip when the start up time elapsed and the normal full load speed has not been reached yet.

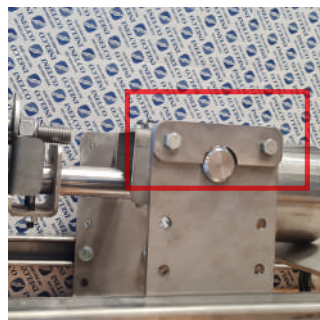
*Refer to installation manual for more information.

A CLOSER LOOK AT HOW IT WORKS



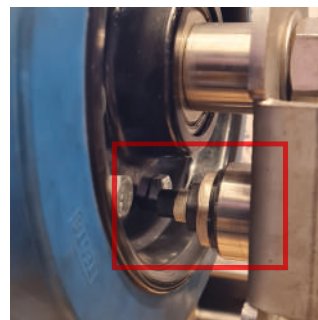
Contact Wheel

Rotates under the conveyor belt. Positioning can be done by adjusting the unistrut horizontally and mounting bracket vertically.



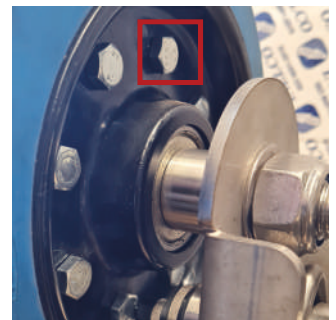
Securing Plate

To secure speed switch in position during operation, and quick release for replacement.



Proximity Sensor

A Proximity switch is mounted inside the arm mounted to the barrel. The bolts turning past this proximity switch create pulses at a speed proportional to the conveyor speed.



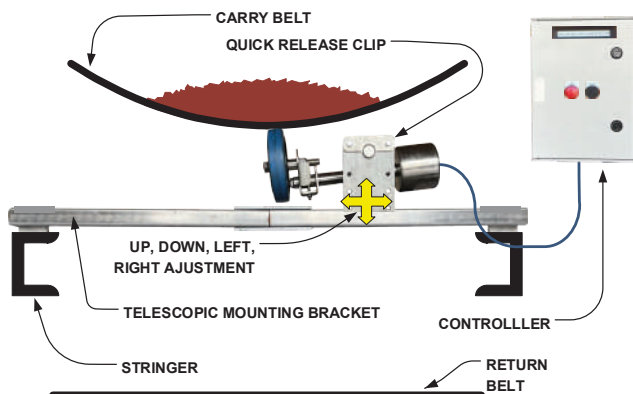
Sensing Bolt

Eight sensing bolts are fitted to the turning wheel to allow for accuracy on slow turning belts

Belt Speed Detector

SS-3 SMART SPEED

RECOMMENDED INSTALLATION



TECHNICAL SPECS

Material (Bracket)	Galvanised Steel
Material (Speed Detector Barrel)	Galvanised Steel
IP Rating (Electronic Enclosure)	IP65
IP Rating (Sensor Barrel)	IP67 & IP66
Contact Rating	10A @ 110VAC
Contacts	1 x SPDT
Sensor Type	NAMUR
Sensor Distance	2mm
Switching Frequency	2000Hz
Dimensions & Weight (Packaged)	1700mm (L) x 450mm (W) x 450mm (D) 72kg

ORDERING DATA

Part No.	Description
S11753	SS-3 Smart Speed Switch with Belt Slip Detection Mild Steel Plated
S11754	SS-3 Smart Speed Switch with Belt Slip Detection Stainless
S11796	SS-3 Smart Speed Switch with Belt Slip Detection M/S Delay Bypass
S11797	SS-3 Smart Speed Switch with Belt Slip Detection S/S Delay Bypass
S11798	SS-3 Smart Speed Switch M/S Proxy Type Direct Connection to PLC
S11799	SS-3 Smart Speed Switch S/S Proxy Type Direct Connection to PLC

Blocked Chute Detector

Tilt Switch - TS1 Smart Block

The TS1 Smart Block is designed to detect when conveyor chutes are blocked and will stop the in-bye conveyor to avoid spillage and damage to the belts.

The TS1 should be mounted (hanging) inside a chute at a level that the material doesn't normally reach during normal operation when the chute is not blocked. When a chute is blocked, material will build up from the bottom causing the Tilt switch to tilt. Tilting of 35 degrees or more (either way) will cause the contacts to open and trip the in-bye conveyor.



IMPACT RESISTANT



NON-CORROSIVE



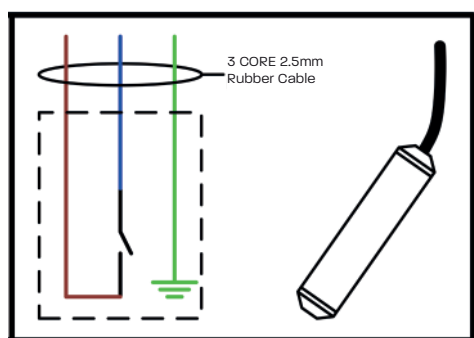
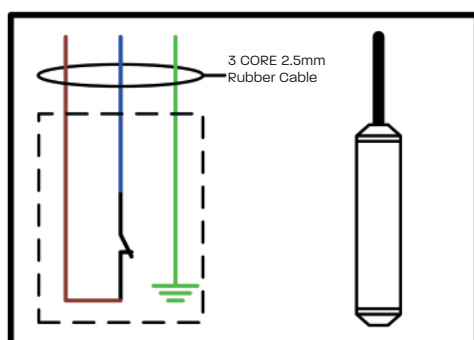
UV RESISTANT



CHEMICAL RESISTANT



STANDARD WIRING DIAGRAM



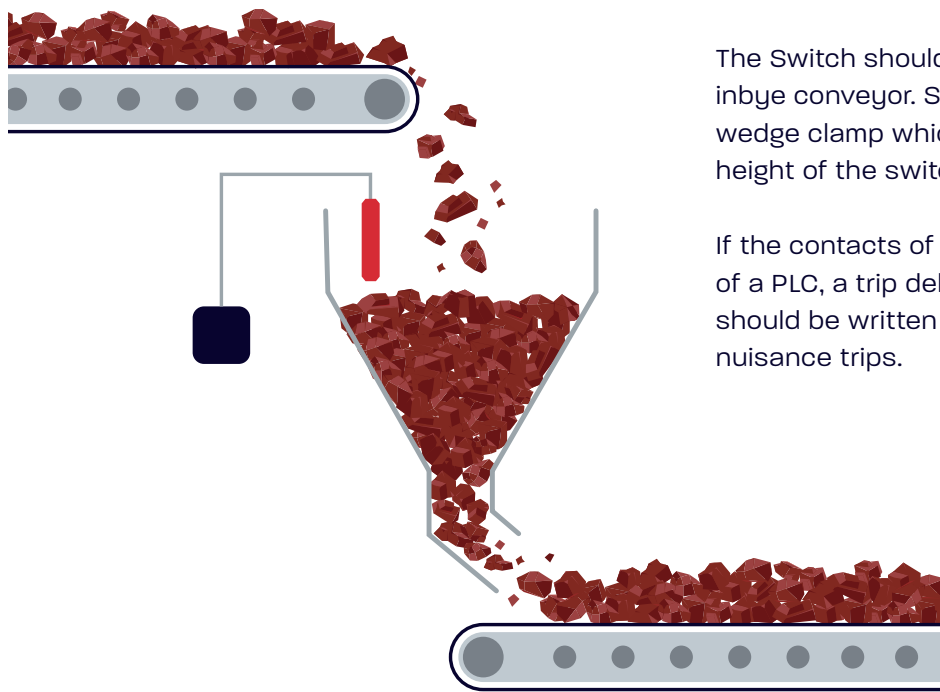
TECHNICAL SPECS

Material	Stainless Steel
IP Rating	IP68
When Vertical	Normally Closed
Switch Current (Max)	12.5A @ 120VAC 6.8A @ 220VAC 60A @ 24VDC
Contacts (Vertical)	1 x NC
Switch Capacity	1500VA
Resistance	50hms
Contact Trip Angle	35°
Operating Angle (Max)	35° , 10°
Operating Temperature	-37 to +80° C
Cable Type	HO7RN-F Rubber Cable
Cable Length	6m
Core Thickness	2.5mm ²
Brown/Blue Core	N/C (When in vertical position)
Yellow Core	Earth

Blocked Chute Detector

Tilt Switch - TS1 Smart Block

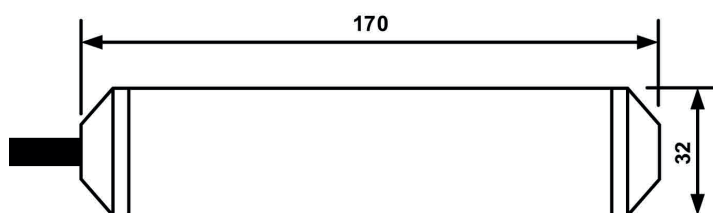
RECOMMENDED INSTALLATION



The Switch should preferably be mounted under the inbye conveyor. Supplied with each TS1 is a cable wedge clamp which helps in adjusting the required height of the switch.

If the contacts of the switch is wired into an input of a PLC, a trip delay of approximately 2-3 seconds should be written into the software to eliminate nuisance trips.

DIMENSIONS 170mm (L) x 32mm (W)



ORDERING DATA

S11513	TS1 Tilt Switch c/w Cable & Wedge Clamp
S11513-WL	TS1 Tilt Switch Welded Loop Type c/w Cable

SIGNAL LINE CONTROL RELAY **SLC2 Smart Monitor**

Application

The Signal Line Control Relay SLC2 is designed to provide reliable and effective conveyor control with simple monitoring via the 2 wire signal line. Must be used with an End of Line Node, Part No: A00721B. Can be used with SLM2 or SLM3 if trip location monitoring is required.

Features

Fail Safe

The SLC2 relay is fail safe in that, should you lose the auxiliary power supply the relay contacts will go to the trip position.

Short Detection

The relay will detect and trip if a short circuit occurs.

Open Circuit Detection

An open circuit such as an, loose connection or a pullkey that has been tripped will cause a trip.

Sequencing

A sequence command can be sent down the signal line to the EOL for side sequencing. The potential free contact on the EOL can be used to start the next down stream conveyor.

Led Indication

- Signal line open
- Signal line healthy
- Sequence input on
- Signal line short
- 24VDC power in
- End of line healthy
- Relay on

RS 485

MODBUS RTU support allows remote monitoring of device status.

Operation with SLM2 or SLM3

The SLC2 module monitors the normally healthy signal line for End of Line termination. When the signal line opens, the SLC2 flags the SLM2 module which then takes over and measures the signal line for a trip location. The first trip position is determined and held on the two character LED display. The SLC2 then releases the flag for the SLM so that when the pullkey trip is reset the SLC2 will become healthy.



Specifications

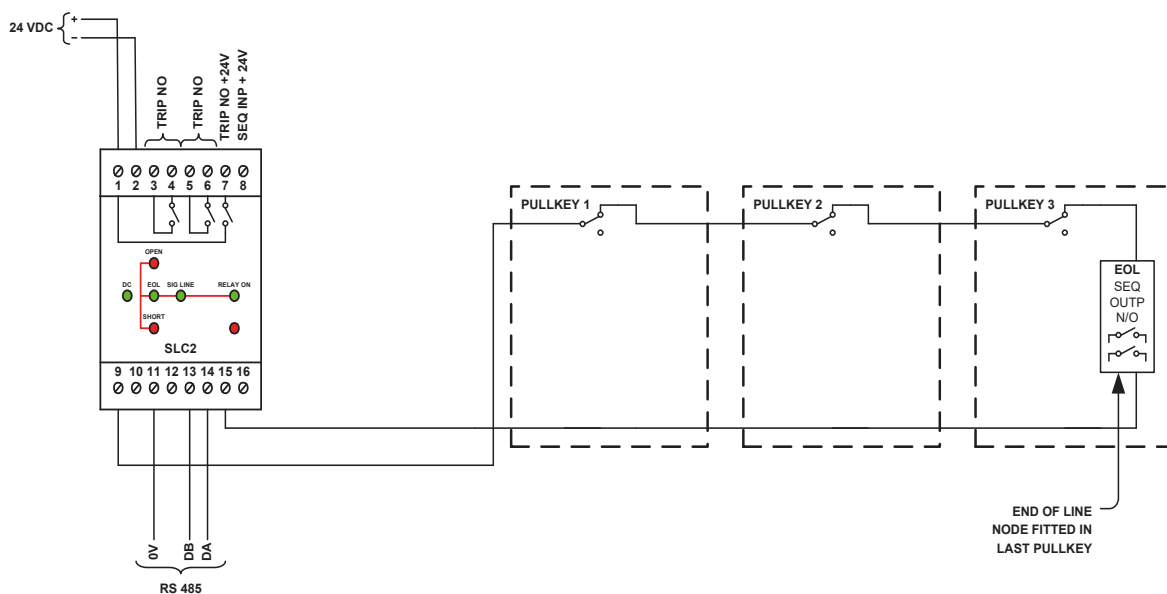
Power Input:	24 VDC, 3.5VA
Signal Line Resistance:	Up to 500 Ohms
Trip Delay:	1.0 Seconds typical
Relay Contacts:	2 x N/O, 5A - 240VAC
Serial RS-485:	MODBUS RTU 9600 Baud, 7 Data Bits Even Parity, 1 Stop Bit

Ordering Information

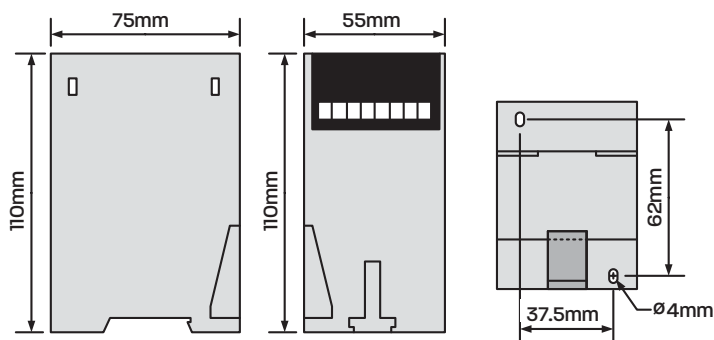
Relay	Part No
SLC2:	A00718
End of Line Node:	A00721

SIGNAL LINE CONTROL RELAY SLC2 Smart Monitor

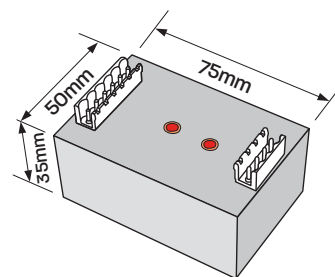
WIRING DIAGRAM



ENCLOSURE DIMENSIONS



END OF LINE NODE DIMENSIONS



SIGNAL LINE MONITORING SYSTEM **SLM2 Smart Monitor**

Application

The SLM2 is used with the SLC2 relay to provide simple two wire monitoring of stop switches, or any other trip device on a conveyor signal line.

Features

Monitoring

Monitoring of trip location on a conveyor system.

Remote Display

As an optional extra the SLM2 Relay can be used with a remote display unit that can be mounted on a panel door.

Last Trip Memory

The SLM2 holds a memory of the last trip location. This feature helps in doing fault finding on loose connections on the signal line.

Led Indication

- 24VDC power in
- Healthy
- Trip
- 485 RX
- 485TX
- Fault Location

RS 485

MODBUS RTU support allows remote monitoring of device status via MODBUS holding registers. Available as an optional extra is an Anybus unit that converts the device status to any protocol requirement.

Fault Count & Fault Flag (Digital)

Fault flag contact is momentary closed whilst the fault count contact pulse the trip location, i.e. ten pulses for trip location ten.

Fault Location mA Output (Analogue)

Each mA output represent a fault location, i.e. 42mA indicates a trip at location 42. Range = 1 - 46mA.

Operation with SLC2

The SLC2 module monitors the normally healthy signal line for End of Line termination. When the signal line opens, the SLC2 flags the SLM2 module which then takes over and measures the signal line for a trip location. The first trip position is determined and held on the two character LED display. The SLC2 then releases the flag for the SLM2 so that when the pullkey trip is reset the SLC2 will become healthy.



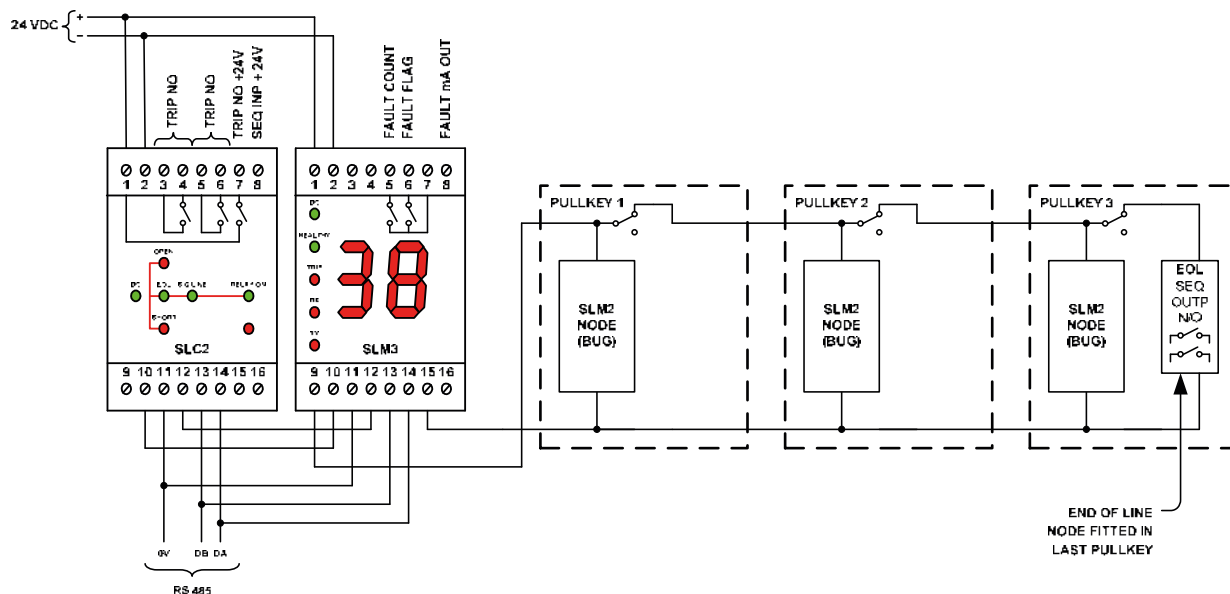
Specifications

Power Input:	24 VDC, 3.5VA Fault
Location Display:	1 – 46
Display Refresh:	2-5 sec
Capture Delay:	8 sec typical
Fault Location Output:	1mA / fault location
Serial RS-485:	MODBUS RTU
	9600 Baud, 7 Data Bits
	Even Parity, 1 Stop Bit

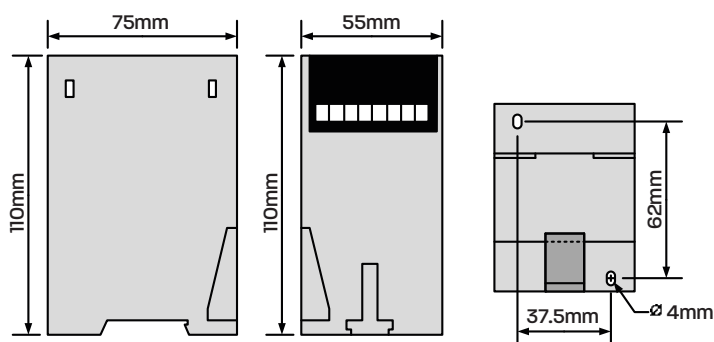
Ordering Information

Relay	Part No
SLM2:	A00720
SLM2 Node:	A00729

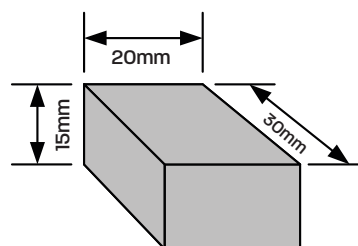
WIRING DIAGRAM



ENCLOSURE DIMENSIONS



SLM2 NODE (BUG) DIMENSIONS



SIGNAL LINE MONITORING SYSTEM **SLM3 Smart Monitor**

Application

The SLM3 is used with the SLC2 relay to provide simple digital two wire monitoring of stop switches, or any other trip device on a conveyor signal line.

Features

Monitoring

Monitoring of trip location on a conveyor system.

Remote Display

As an optional extra the SLM3 Relay can be used with a remote display unit that can be mounted on a panel door.

Last Trip Memory

The SLM3 holds a memory of the last trip location. This feature helps in doing fault finding on loose connections on the signal line.

Addressable Node

The SLM3 node is addressable with up to 256 unique fault location addresses. Two dial switches can each be set from A to F and 0 to 9.

For example:

First dial		Second Dial Display
B	9	= B9
8	9	= 89

Led Indication

- 24VDC power in
- Healthy
- Trip
- 485 RX
- 485TX
- Fault Location

RS 485

MODBUS RTU support allows remote monitoring of device status via MODBUS holding registers. Available as an optional extra is an Anybus unit that converts the device data to any protocol requirement.

Operation with SLC2

The SLC2 module monitors the normally healthy signal line for End of Line termination. When the signal line opens, the SLC2 flags the SLM3 module which then takes over and measures the signal line for a trip location. The first trip position is determined and held on the two character LED display. The SLC2 then releases the flag for the SLM3 so that when the pullkey trip is reset the SLC2 will become healthy.



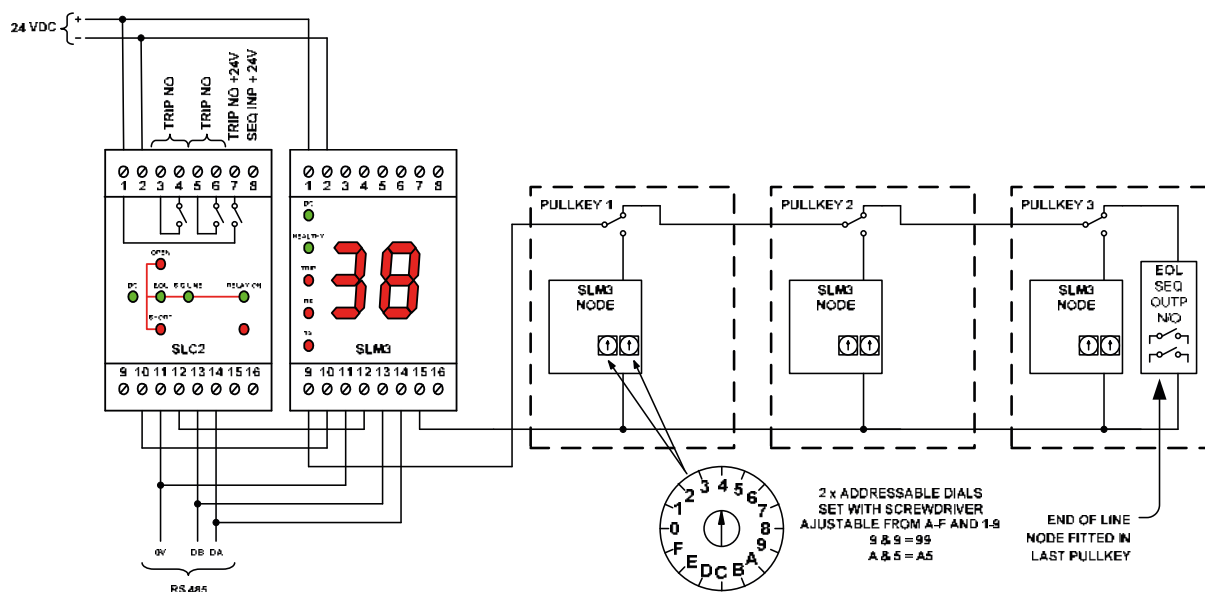
Specifications

Power Input:	24 VDC, 3.5VA Fault Location
Display:	256 Addresses
Display Refresh:	2-5 sec
Capture Delay:	8 sec typical
Serial RS-485:	MODBUS RTU 9600 Baud, 7 Data Bits Even Parity, 1 Stop Bit

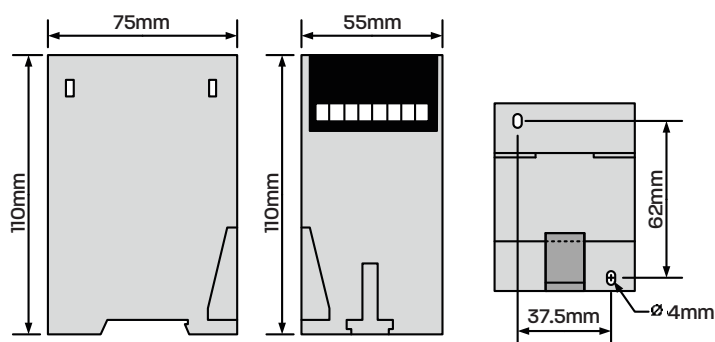
Ordering Information

Relay	Part No
SLM3:	A00920
SLM3 Digital Node:	A00921

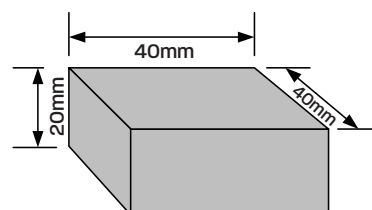
WIRING DIAGRAM



ENCLOSURE DIMENSIONS



SLM3 NODE DIMENSIONS



SIGNAL LINE MONITORING SYSTEM **SLM4 Smart Monitor**

Application

The SLM4 system has been designed to do conveyor protection and monitoring over very long distances.

The SLM4 works with a 7" colour Touch Screen designed to monitor your critical conveyor protection and safety devices through a 4 core Signal Line cable.

SLM4 SIGNAL LINE MONITORING UNIT

The Signal Line Monitoring Relay is where all the monitoring information comes together and gets processed. Our SLM4 unit can operate with 24VDC (for IS Systems) or 48VDC (for non IS Systems). The SLM4 Relay has a RS-485 Modbus RTU port for the sharing of all the monitoring information with the outside world. The MODBUS could be converted to any field bus of your choice. The SLM4 is a Fail Safe system and will immediately trip the belt in the event of a break or a short circuit in the signal line.

Inputs

E-Stop
Remote Start
Rem Pre-Start
Speed Switch /
Slip Detector Seq In
Lightning Protection
3 Phase Isolate Confirmation

Outputs

Start Out
System Healthy
Isolate to Mains

SLM4 IS Barrier

The Signal Line IS Barrier is only used when the system is used in a hazardous area and the system needs to be Intrinsically Safe. The Barrier limits the current that goes into the hazardous area. It has an [EX ib] I approval certificate

PULLKEY

The PK-PP Polycarbonate Pullkey is extremely robust and has been tested and certified by a Government Approved Laboratory with an IP Rating of IP66/67. Our PK-AP and PK-PP pullkeys complies with BS EN 13850:1015, and Australian Standards AS/NZS 4024.3610:2015. Built into the pullkey are two (102dB @ 30cm) Pre Start Warning sounders. A LED on the left and right hand side of the Pullkey will indicate a trip (Continuously On), or a PSW failure (Flashing). Each Pullkey is equipped with Lightning Protection. The SLM4 Node is mounted in each Intelligent Pullkey. The node sends the trip information to the SLM4 over very long distances via our INEL Bus protocol. Each SLM4 node has two fixed inputs and two configurable inputs. The two fixed inputs are for a Pullkey and Dummy Pullkey trips, whilst the two configurable inputs can be configured to the following trip conditions:

- Rip Detector
- Tear / Spillage Detector
- Return Belt Spillage Detector
- Misalignment Warning Left
- Misalignment Trip Left
- Misalignment Warning Right
- Misalignment Trip Right
- Side Guard Removal Detector
- Fire Detection
- Belt Dislodgement

SLC4 EOL

+27 (0)13 665 5288
info@inelco-int.com



The SLM4 End Of Line Node terminates the signal line and is fitted after the last monitoring point.

SLM4 REMOTE INPUT MODULE

Where many monitoring, or trip devices are mounted in a close proximity of each other the Remote Input Module is fitted inside a Junction box to monitor these inputs. Each Remote Input Module has four configurable inputs. If more inputs are required an additional Remote Input Module can be fitted inside the same Junction Box.

LIGHTNING PROTECTION UNIT

The Lightning Protection Unit is installed on the outgoing Signal Line Cable to protect the Head End Controller Electronics from possible surges that could come in from the field.

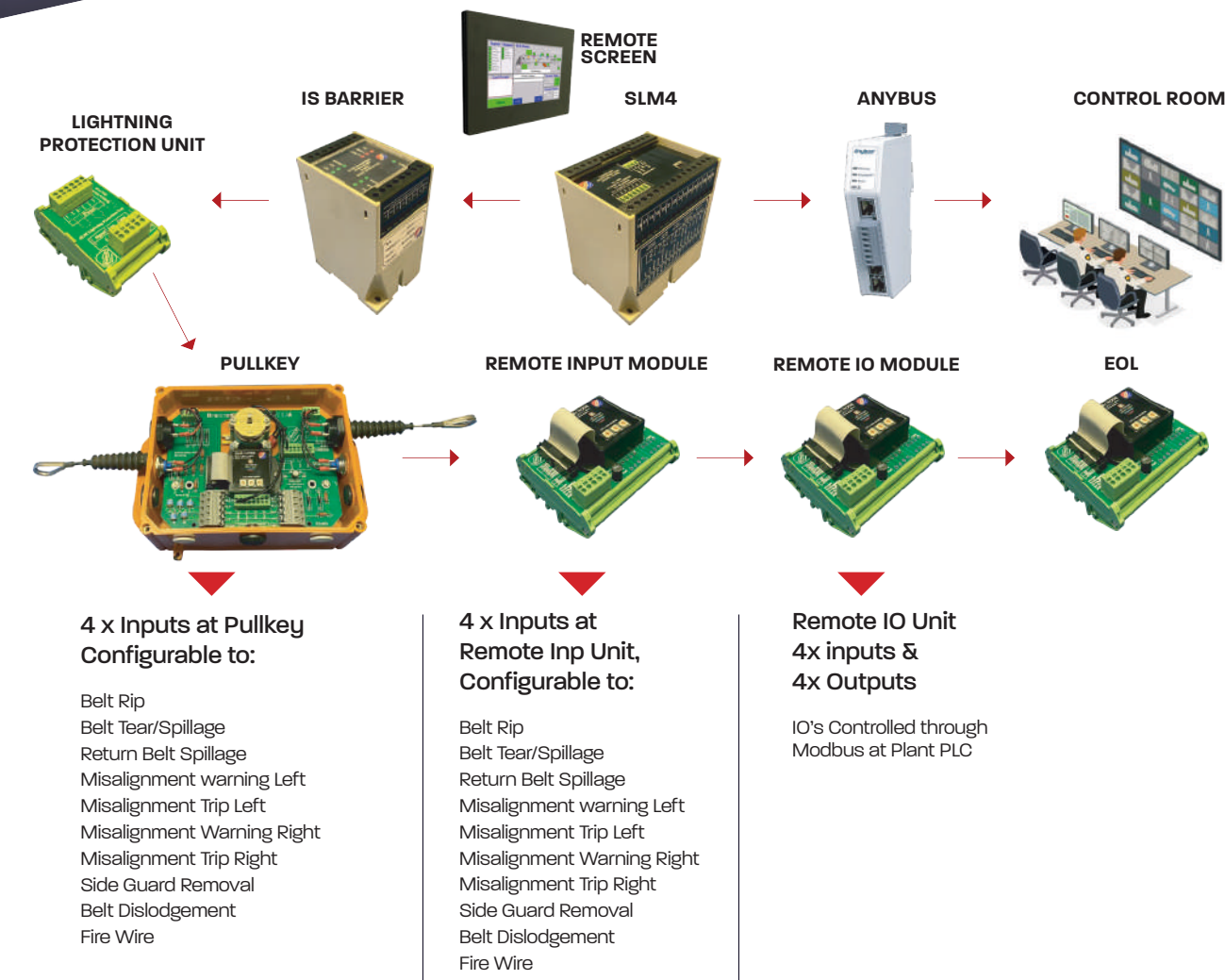
REMOTE IO UNIT

Expand the functionality of your Plant PLC and use the SLM4 system as a gateway to have Remote IO Modules that could be connected anywhere on the signal line.

GENERAL SYSTEM FEATURES

- Pre Start Proof detection
- 3 Phase Remote Isolation
- LED of a Failed Siren will Flash
- In Maintenance Mode, The statutory tests done on the conveyor are logged, time date stamped and available to be downloaded in PDF format
- PSW Test Function at Pullkey
- Built in Lightning Protection
- Quick Change Plug in Nodes
- Large cost savings as one node detects Multiple faults at one location
- Monitoring and Pre-Starting over very long distances without having to fit data repeaters or additional power supplies
- Plant PLC Remote IO Compatibility.

SIGNAL LINE MONITORING SYSTEM **SLM4 Smart Monitor**



ORDERING DATA

Part No.	Description	Part No.	Description
S11801	SLM4 Signal Line Monitoring Unit	S11809	SLM4 Remote Input Node in Cradel, IS
S11802	SLM4 Remote Screen, 7" Colout Touch, c/w 2m Cable	S11810	SLM4 EOL Node in Cradel, Non IS
S11803	SLM4 IS Barrier	S11811	SLM4 EOL Node in Cradel, IS
S11804	SLM Lightning Protection Unit	S11812	SLM4 Remote IO Node in Cradel, Non IS
S11805	SLM4 Node	S11813	SLM4 Remote IO Node in Cradel, IS
S11806	SLM4 EOL Node	LED-R-12V	LED Stainless 12VAC/DC Red
S11807	SLM4 Remote IO Node	FSK-3826	PSW Siren, 12VDC, 102dB @ 30cm
S11808	SLM4 Remote Input Node in Cradel, Non IS		

