

Conveyor Belt Monitoring Systems Thermo Ramsey PROLINE.

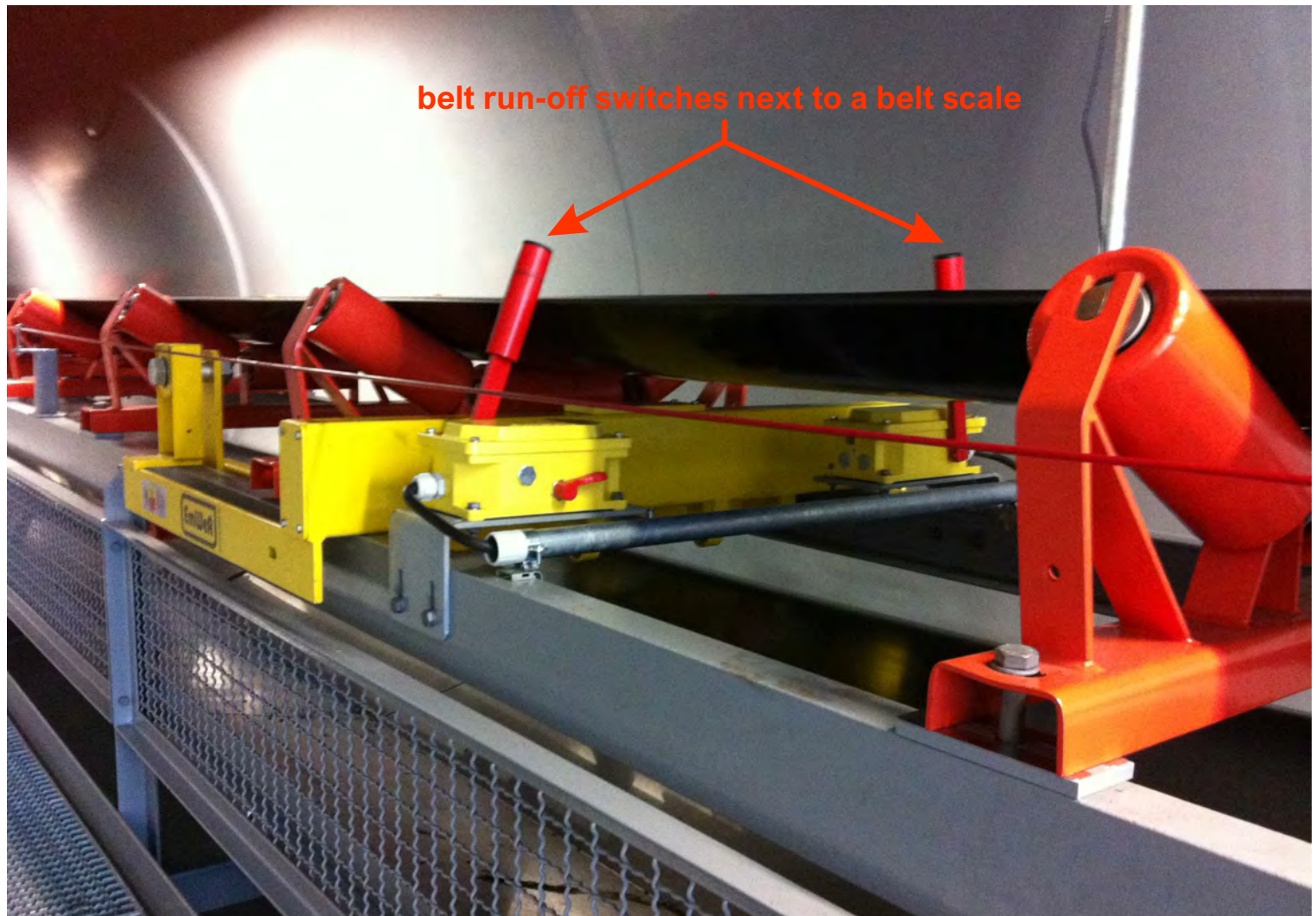
Safety pull cord switches, belt run-off switches, tripper position switches, under speed switches, and speed sensors.



Conveyor Belt Monitoring Systems

Thermo Ramsey PROLINE monitoring systems are particularly robust and guarantee a long service life in harsh industrial environments and in mining.

Choose from our extensive range of safety pull cord switches, belt run-off switches, tripper position switches, under speed switches, and speed sensors.



Safety pull cord switch PROLINE SPS-60-31-G



Robust pull cord switch. Two switching elements are actuated by different cams on the shaft.

Technical specifications:

Housing:	die-cast aluminum, IP 65 NEMA-4, yellow finish
Attachment parts:	steel, red finish; or stainless steel 1.4404 AISI 316L
Outputs:	2NO + 2NC, 6 A 250 V AC resp. 10 A 24 V DC
Operating temperature:	-45 ... +85 °C
Threaded holes:	M20 x 1.5
Lever orientation:	changeable
Actuating angle:	18°
Abstand:	recommended switch spacing: 50 m
Explosionsschutz:	none; ATEX Zone 22 II 3D Ex tb IIIC T85°C Db; ATEX Zone 21 II 2D Ex tb IIIC T85°C Ip65

Belt run-off switch PROLINE ROS-60-30-G



Robust belt run-off switch. Two switching elements are actuated by different cams on the shaft.

Technical specifications:

Housing:	die-cast aluminum, IP 65 NEMA-4, yellow finish
Attachment parts:	steel, red finish; or stainless steel 1.4404 AISI 316L
Outputs:	2NO + 2NC, 6 A 250 V AC resp. 10 A 24 V DC
Operating temperature:	-45 ... +85 °C
Threaded holes:	M20 x 1.5
Lever orientation:	changeable
Actuating angle:	15° (alarm) and 30° (shut-down)
Belt speed:	max. 8 m/s
Explosion protection:	none; ATEX Zone 22 II 3D Ex tb IIIC T85°C Db; ATEX Zone 21 II 2D Ex tb IIIC T85°C Ip65

Tripper position switch PROLINE TPS-60-32-G



Robust tripper position switch. Two switching elements are actuated by different cams on the shaft.

Technical specifications:

Housing:	die-cast aluminum, IP 65 NEMA-4, yellow finish
Attachment parts:	steel, red finish; or stainless steel 1.4404 AISI 316L
Outputs:	2NO + 2NC, 6 A 250 V AC resp. 10 A 24 V DC
Operating temperature:	-45 ... +85 °C
Threaded holes:	M20 x 1.5
Lever orientation:	changeable
Actuating angle:	18°
Explosion protection:	none; ATEX Zone 22 II 3D Ex tb IIIC T85°C Db; ATEX Zone 21 II 2D Ex tb IIIC T85°C Ip65



Under speed switch PROLINE 60-23P



Inductive, shaftless under speed switch. Detects and signals stop or high/low speed of conveyor belts.

Technical specifications:

Housing:	fiber-reinforced polyamide with 30% mineral
Protection:	IP 65
Power supply:	110 / 220 V AC $\pm 10\%$, 5 VA
Outputs:	2 A 120 V DC, non-inductive
Operating temperature:	-25 ... +65 °C
Threaded hole:	M20 x 1.5
Switching distance:	10 mm
Measuring range:	60 ... 600 pulses / min (standard); 2 ... 20; 7.5 ... 75; 30 ... 30 pulses / min (optional)
Explosion protection:	none

Under speed switch PROLINE 60-23A



Shaft driven under speed switch. Detects and signals stop or high/low speed of conveyor belts.

Technical specifications:

Housing:	fiber-reinforced polyamide with 30% mineral
Protection::	IP 65
Power supply:	110 / 220 V AC $\pm 10\%$, 5 VA
Outputs:	2 A 120 V DC, non-inductive
Operating temperature:	-25 ... +65 °C
Threaded hole:	M20 x 1.5
Measuring range:	15 ... 150 PPR (standard); 2 ... 20; 3 ... 30; 7.5 ... 75 PPR (optional)
Explosion protection:	none; ATEX 22

Under speed switch PROLINE 60-29A



Inductive, shaftless under speed switch. Detects and signals stop or high/low speed of conveyor belts.

Technical specifications:

Housing:	die-cast aluminum, yellow finish
Protection:	IP 67
Power supply:	110 / 220 V AC $\pm 10\%$, 5 VA
Outputs:	2 A 120 V DC, non-inductive
Operating temperature:	-25 ... +65 °C
Threaded hole:	M20 x 1.5
Switching distance:	10 mm
Measuring range:	60 ... 600 pulses / min (standard); 2 ... 20; 7,5 ... 75; 30 ... 30 pulses / min (optional)
Explosion protection:	ATEX21 (II 2D Ex tb IIIC T90°C Db Ip68)

Speed sensors PROLINE 60-12C and 60-12EN



Shaft driven speed sensor, provides a signal proportional to the belt speed or rotation speed.

Technical specifications:

Housing:	fiber-reinforced polyamide with 30% mineral
Protection:	IP 65
Resolution:	50 PPR; 1000 PPR
Operating temperature:	-20 ... +65 °C
Threaded hole:	M20 x 1.5
Explosion protection:	none; ATEX 22

Speed sensor PROLINE 60-12P



Inductive, shaftless speed sensor, provides a signal proportional to the belt speed or rotation speed.

Technical specifications:

Housing:	fiber-reinforced polyamide with 30% mineral
Protection:	IP 65
Power supply:	110 / 220 V AC $\pm 10\%$, 5 VA
Operating temperature:	-20 ... +65 °C
Threaded hole:	M20 x 1.5
Explosion protection:	none; ATEX 22

Speed sensors PROLINE 60-12F, 60-12ENC, 61-12N and 61-12C/CSA



Shaft driven speed sensor, provides a signal proportional to the belt speed or rotation speed.

Technical specifications:

Housing:	die-cast aluminum, yellow finish
Protection:	IP 67
Resolution:	50; 64; 200; 500 PPR
Operating temperature:	-25 ... +65 °C
Threaded hole:	M20 x 1.5
Explosion protection:	none; ATEX 22; CSA

Speed sensors PROLINE ZA-11 and ZA-11-LS



Speed sensor with underbelt measuring wheel, provides a signal proportional to the belt speed.

Technical specifications:

Material:	stainless steel 1.4301 AISI 304, PTFE
Protection:	IP 65
Belt speed:	0.3 ... 4 m/s; 0.2 ... 2.5 m/s
Operating temperature:	-25 ... +65 °C
Connecting cable:	ca. 2 m
Explosion protection:	none



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