



### Protection for crushers, mills and other machines

- Monitors bulk materials in the mining and building materials industry
- Self-adjusting and extremely easy to install
- High-quality components ensure reliability and long service life
- Detects ferrous and non-ferrous metals, iron oxide and ore are ignored
- Probe and amplifier are immune to vibration and resistant to weather, dirt and stone chips
- Sturdy aluminium design: particularly robust and easy to clean



- High sensitivity (M6 nuts) at belt speed of 0.1 - 4 m/s
- Very simple operation
- Can be used near frequency converters, only I m minimum distance between probe and motors or magnets
- Monitoring and display of internal parameters
- Optional: Realization as tandem for higher debris heights
- Optional: complete blanking of magnetite Fe304

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Metalldetektor SQ als Einzelsonde unter dem Förderband montiert.

#### Scope of Delivery:

- Detection unit/sensor
- Control unit in stainless steel housing

#### Versions:

The SQ is a single probe version of the metal detector that can be easily mounted under the conveyor belt.

For better protection, use the SQTA version with tandem probe: it monitors your goods from above and below the conveyor belt.

#### Application:

 Protection against harmful metal parts such as tools or machine parts in the material.



#### **Function:**

The SQ and SQTA metal detectors offer good metal sensitivity for monitoring bulk materials in the mining and construction industry.

They are extremely durable, insensitive to vibrations and resistant to weather, dirt or stone chips. They are easy to install, handle and maintain.

Both are available for belt widths from 500 mm to 1,200 mm. At a belt speed of 0.1 - 4.0 m/s they can easily detect metal parts of the size of about M6 nuts and larger.

For a higher belt speed (M10 nuts) at a belt speed of max. 4.0 m/s we recommend the metal detectors SQ and SQTA.



Metal detector SQTA – tandem version.

#### Industries:

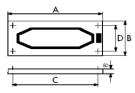
- Quarries
- Lime works
- Hard Stone Works
- Sand pits
- Cement plants
- Slag preparation
- Recycling of building materials
- Brickworks
- Coal-fired power plants

# Protection for crushers, mills and other machines

# Specifications:

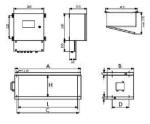
Für SQ und SQTA							
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Input Signal	Sensor and coaxial cable						
Output Signals	Metal alarm:	I Siemens comb relay with 2 potential-free changeover contacts Switching capacity 230V, 6A resistive load, quiescent or operating current principle switchable.					
	Fault:	I Siemens comb relay with I potential-free changeover contact Switching capacity 230V, 6A resistive load.					
Metal detection	lron, non-ferrous (e.g. aluminium or copper), largely ignores ores Optional: complete blanking of magnetite Fe304						
Belt widths	500 – 2,000 mm						
Belt speed	0.1 – 4 m/s (other speeds on request)						
Protection Type	IP 55						
Ambience	-20° C up to +55° C						
Product Temperature							
Power Supply	230V 15 Hz +/- 15%, typ. consumption 15 VA						
Controller	Sheet steel housing, prepared for wall mounting, 18 kg						
Sensitivity	from steel nuts M6						
Versions	SQ: mono for lower debris heights SQTA: tandem for higher debris heights						

# Single-probe system SQ:



Nominal size	A (mm)	B (mm)	C (nmm)	D (mm)	Belt width (mm)	weight (kg)		
500	700	400	640	260	500	18		
650	850	400	790	260	650	24		
800	1.000	400	940	260	800	28		
1000	1.250	500	1170	300	1000	43.5		
1200	1.500	500	1420	300	1200	52		
Other sizes on request.								

# Tandem-probe system SQTA:



Nominal	Α	В	С	D	L	Belt width	weight
size	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
500	700	400	640	260	600	500	46
650	850	400	790	260	750	650	57
800	1000	400	940	260	900	800	66
1000	1250	500	1170	300	1150	1000	100
1200	1500	500	1420	300	1150	1200	118