

GLS-R

Closed metal detector for installation in belt conveyors for the inspection of tyre rubber in tyre production

- Detects magnetic and non-magnetic metal contamination, even when enclosed in product
- Reduces expensive machinery failure and minimises production downtime
- Ensures product quality
- Prevents customer complaints
- Break even within a very short period of time



GLS-R metal detectors are available with Control Unit GENIUS+ or as an option with GENIUS+ Touch with large colour touch-screen

- For the inspection of rubber sheets especially in tyre production
- Available with Duo multi-frequency technology for greatly differing compound compositions
- Optimal and highest-precision detection of all metals in the complete tunnel area
- High-resolution LCD full-graphic-display or large TFT colour touch-screen for ease of operation
- Auto-teach function or manual product compensation for improved adaptation to the intrinsic conductivity of the product to be inspected or of the conveyor belt – to actively prevent faulty activations
- Robust and massive system design ensures high interference immunity
- Memory for up to 128 different products (compound formulas)
- Increased signal-to-interference ratio to electrosmog, vibration, and conveyor belt distortion

Function:

The GLS-R metal detector with closed, rectangular aperture primarily is used in the tyre industry for the inspection of rubber sheets on a belt conveyor or chute. It detects all magnetic and non-magnetic metal contaminations (steel, stainless steel, aluminium, ...) – even if they are embedded in the product.

When a metal is detected a signalling device can be activated or a signal is sent to the process control system.

The closed design of the GLS-R metal detector offers the advantage of a very high metal sensitivity throughout the complete tunnel area, which is why this metal detector is used for applications demanding high scanning sensitivities.

Accessories/Options:

- Optical and acoustical signalling devices
- Duo multi-frequency technology
- Control Unit SENSITY
- Software for central data management (InsightLog.Net or Insight.Net)
- Various interface options
- High-temperature system version for material temperatures higher than 80°C
- Other options on request

Additional Features:

- Stainless steel version (glass-bead blasted) with protection class IP 65 (higher protection class on request)
- Minimum required space due to extremely reduced metal-free zone
- Password-protected system logbook
- Menu guidance with plain text display (several languages available)

Scope of Delivery:

- Tunnel detector, type GLS-R
- Control Unit GENIUS+ attached (as an option for remote installation)

Typical Application Areas:

- Tyre industry

Application:

Machine protection for rubber-processing machines especially in the tyre industry.



GLS-R metal detector with Control Unit GENIUS+ TOUCH with large TFT colour touch-display



Installation example: GLS-R metal detector installed in a belt conveyor for the inspection of rubber sheets in the tyre industry (old version)