

Coil detection in automated coil evacuation



Product

Type	LRD 600.38 GV
Art. no.	5040A
Type	LLK 2
Art. no.	6436I
Type	OADF 154
Art. no.	6039A
Type	OR 05
Art. no.	9818I
Application field	Non-contact detection of hot and cold objects

Detailed description

Customer / sector	Thyssen Krupp Steel / steel plates production
Application description	Coil control in an automated coil transport system. After being wound into rolls, coils are removed automatically from the coiler, marked, strapped and stored in a storage common area.
Customer problem	Reliable coils detection regardless of their temperature, cold or warm, up to 600°C. Detection is made difficult by the coil temperature combined with the nearby outdoor area, which facilitates steam formation. A thru-beam light barrier could not be installed due to missing electrical wiring.
Previous solution	Existing light barriers are not resistant against radiated heat and get damaged. Furthermore, they get easily disturbed by pollution or steam.
Proxitron solution	Retro-reflective barrier with fiber glass cable, remote optics and high-temperature glass reflector.
Advantages compared to previous solution or competition	Fiber glass cable and optics withstand +290 °C, whereas the reflector resists up to +500 °C; these parts can be mounted directly in the range of influence of radiated heat. The high functional reserve allows for the barrier proper working also in presence of pollution. A dedicated output sends a signal when pollution is increasing and optics need cleaning, thus preventing barrier malfunctioning.

Picture



Retro-reflective barrier LRD 600 with optics OADF 104 and fiber glass cable LLK 2

High-temperature glass reflector OR05



Used accessories

	Type	Art. no.
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	Type	Art. no.
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More information

	Document
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