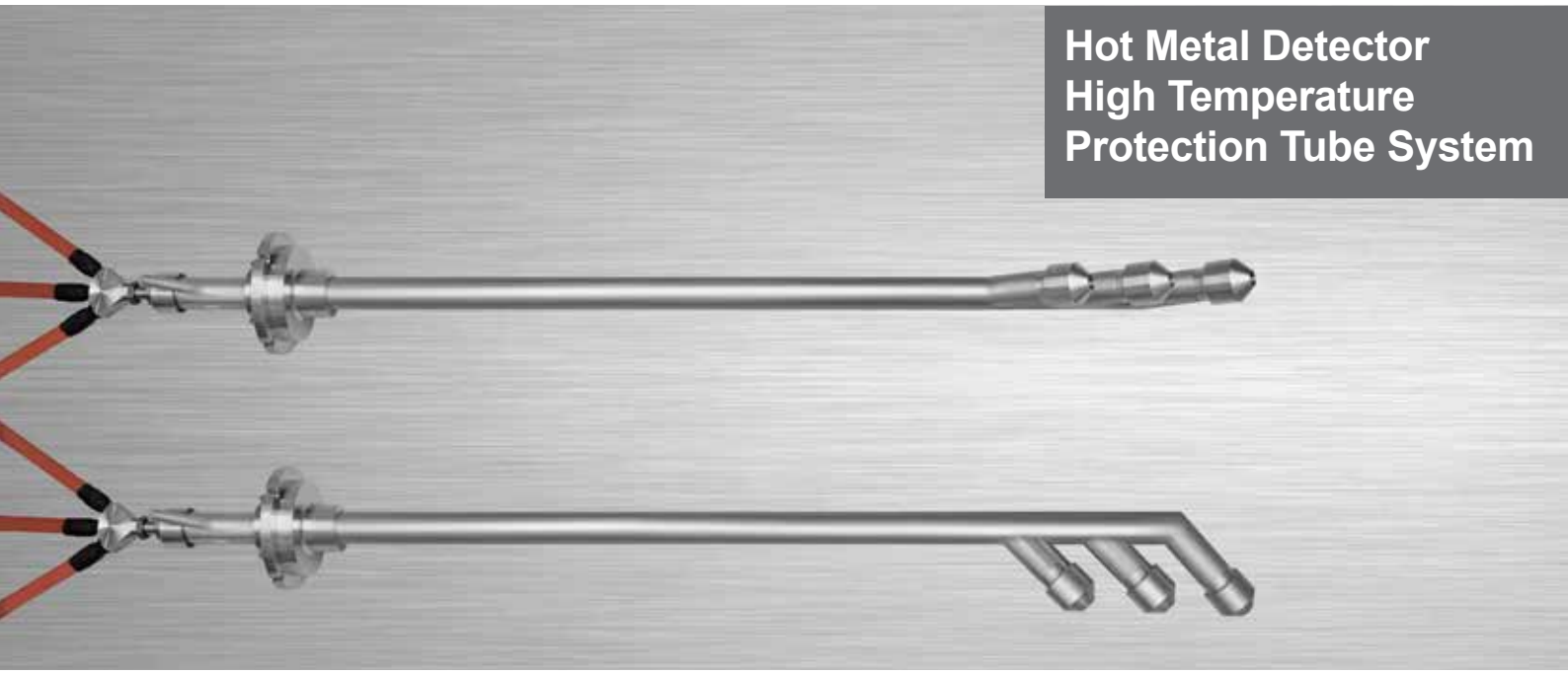
Proxitron

SENSORS MADE IN GERMANY



Hot Metal Detector
High Temperature
Protection Tube System

Detects, where
others sweat

Piros Hot Metal Detector Protection Tube Systems

Piros Hot Metal Detector Protection Tube Systems transfer the heat radiation from hot objects to a separate electronic system. They can be used in applications where other sensors reach their limits because of high radiation or ambient temperatures. The compatible mounting fixture enables replacement of existing AEG protection tube systems.
The Hot Metal Detector Protection Tube System features an air purge connection for cooling and cleaning the optics and it may be mounted inside the conveyor track directly below the hot object that need to be detected. This results in extremely high detection accuracy and reproducibility. Available are systems with 1 to 3 optics, which transfer IR radiation via a fiber optic cable to an electronic evaluation system. This enables redundant monitoring of hot material on the conveyor track.

Hot Metal Detector Protection Tube System OIL 001
Three separated optic systems detect IR radiation

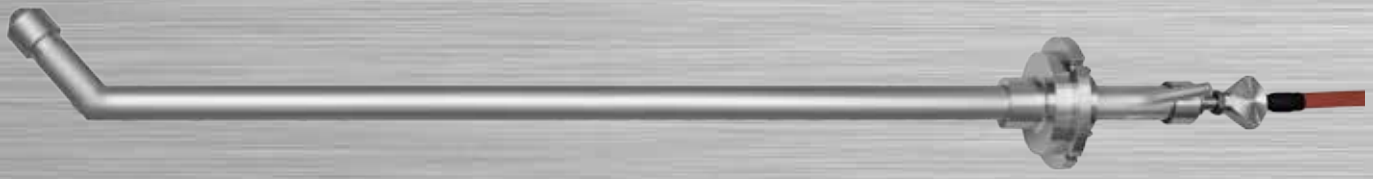
Piros Infrared Sensor OSE 3L48.38 GVK
The evaluation unit receives the IR radiation via three fiber optic cables, providing redundant monitoring via operating modes of either 3 of 3, 2 of 3 or 1 of 3.

Hot Metal Detector Protection Tube System OIL 004
Two separated optic systems detect the IR radiation

Piros Infrared Sensor OSE 2L48.38 GVK
The evaluation unit receives the IR radiation via two fiber optic cables, providing single or double redundant monitoring.

Hot Metal Detector Protection Tube System OIL 003
One optic system detects the IR radiation

Piros Infrared Sensor OSE 1L48.38 GVK
The optic evalution unit receives infared radiation via a single fiber optic cable and evaluates it.



Type	Art.-No.	Optic Systems	Evaluation Sensor	Art.-no.	Operating Modes	Output
OIL 001	6437A	3	**OSE 3L48.38 GVK**	7540C	1 of 3, 2 of 3, 3 of 3	PNP n.o. PNP n.c.
OIL 004	6440A	2	**OSE 2L48.38 GVK**	7540D	1 of 2, 2 of 2	PNP n.o. PNP n.c.
OIL 003	6439A	1	**OSE 1L48.38 GVK**	7540E	1 of 1	PNP n.o. PNP n.c.

Ambient temperatures of -25 up to +290° C
Distance optic / material >170 mm
Response temperature >380°C
Fiber optic cable lengths approx. 3 m

P36e 0314

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