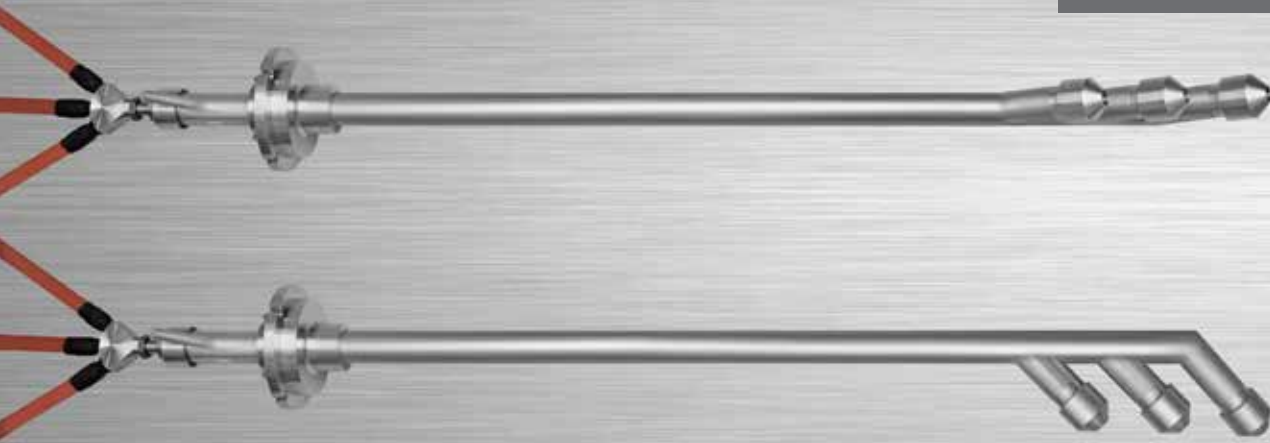


## Hot Metal Detector High Temperature Protection Tube System



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



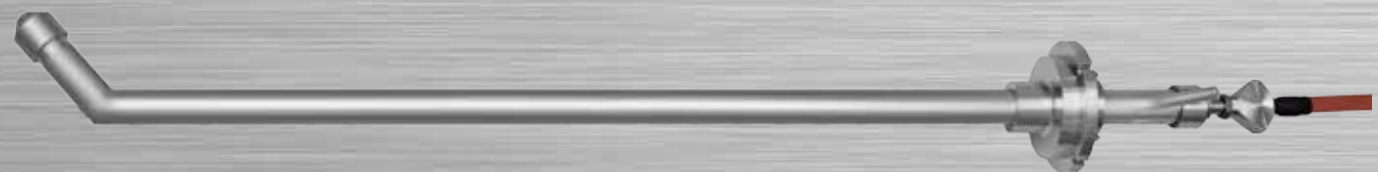
### Piros Infrared Sensor OSE 2L48.38 GVK

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 evaluation unit receives infrared 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