Proxitron

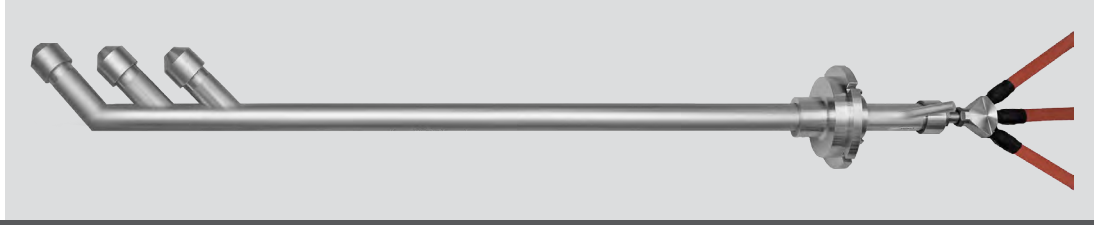
SENSORS MADE IN GERMANY

Hot Metal Detector in High Temperature Protection Tube

for installation in the roller conveyor

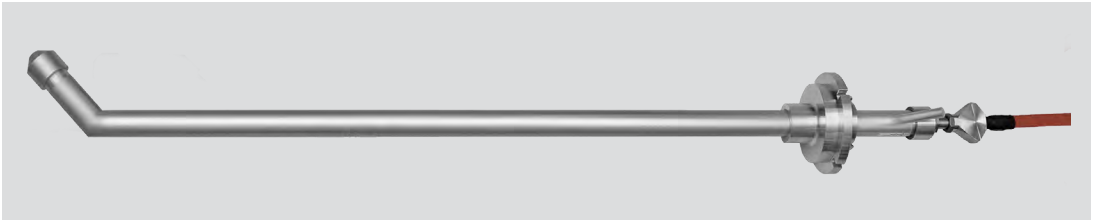
Hot Metal Detector Protection Tube Systems

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 fixing method allows the replacement of existing AEG protection tube systems. The Hot Metal Detector Protection Tube System features an air purge connection for optics cooling and cleaning, and can be mounted inside the conveyor track directly below the hot object 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.



Optic Systems	3
Type protection tube	OIL 001
Description	Three individual optic systems detect the IR radiation
Type evaluation unit	OSE 3L48.38 GVK
Description	Evaluation electronics for three fiber optic cables enable redundant monitoring
Possible operating modes	1 of 3, 2 of 3, 3 of 3

Optic Systems	2
Type protection tube	OIL 001
Description	Two individual optic systems detect the IR radiation
Type evaluation unit	OSE 2L48.38 GVK
Description	Evaluation electronics for two fiber optic cables enable redundant monitoring
Possible operating modes	1 of 2, 2 of 2



Optic Systems	1
Type protection tube	OIL 003
Description	One single optic system detects the IR radiation
Type evaluation unit	OSE 1L48.38 GVK
Description	Evaluation electronics for a single fiber optic cable without the possibility of redundant monitoring
Possible operating modes	1 of 1

General technical data	
Ambient temperature	-25 up to +290 °C protection tube
Distance to the material	> 170 mm
Response temperature	450 - 850 °C adjustable
Fiber optic cable length	3 m
Output	PNP normally open + PNP normally closed

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