

Sensors for steel works



We keep cool when it's hot



The products - the company

Information on material positions is required to control automated processes in steelworks and rolling mills.

For over 20 years Proxitron has been designing and manufacturing sensors for this purpose.



Robust standard devices that have withstood the extreme conditions of their environment worldwide are the result of good cooperation between plant engineers and operators. The innovations required in this branch and the awareness for high quality are the challenges that we are faced with every day. Robuste

Sensors for hot regions are called Piros

Piros infrared sensors and Piros light barriers are opto-electronic sensors to track material in hot-rolling mills.

Piros infrared sensors react to the radiation emitted from the hot goods and convert this information into an electrical output signal.

Piros light barriers, in contrast, consist of an infrared transmitter and a receiver, with the object interrupting the beam (through-beam or reflex switch) or reflecting it.

The fully encapsulated stainless steel housing protects robust electronic components whose signal processing can be adjusted depending on the requirements. A range of options and accessories guarantee customized solutions.

They can also be supplied with cooling jacket housings and fibre optic cables for applications with very high ambient temperatures

"Keep cool" - inductive proximity switches

Conventional sensors for metal objects easily become too hot in steelworks. Proxitron has the answer to this problem:

- Sensing distances up to 200 mm prevents mechanical or thermal destruction.
- Teflon housing with cooling water connection withstands extremely high temperatures
- Proximity switches for ambient temperatures up to 175 C allow entirely new applications.
- Integrated temperature measurement indicates that unpermissible temperatures have been reached.





New sensors learn and know more

The knowledge about production processes continues to become more complex and the distribution of tasks between the sensor devices and the PLC systems less clearly defined. To produce repeatable signals sensors with clear definitions are required. That is why we communicate with plant engineers and operators. The result is sensors that know their surroundings and can learn them as required: either in the teach-in mode or in a continuous learning process. Modular design of the sensors allows individual process programs to be programmed.

Proxitron and Piros are trademarks for wide fields of application ...

Mechanical engineers and plant engineers working in shipbuilding and process manufacturing, and in the chemistry, automotive and food industries put their trust in the innovation and quality provided by Proxitron sensors:

- Piros infrared sensors
- inductive proximity switches
- inductive sensor strips
- ring sensors
- inductive analogue sensors
- capacitive proximity switches
- flow sensors to monitor flow based on the calorimetric principle
- numerous customized solutions

... Used worldwide

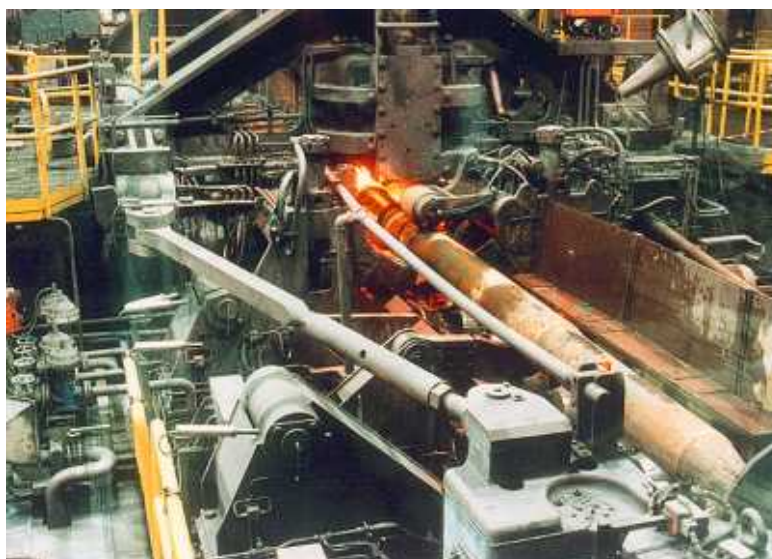
All over the world, wherever sensors made by Proxitron are being used, you can find people to talk about them.

For example, at:

Acindar, Siderca (Argentina)
 ANSDK (Egypt)
 Cockerill-Sambre (Belgium)
 CSN, Mannesmann (Brazil)
 Nova Hut (Czech Republic)
 Anshan, Baotou, Kangwon (China)
 B.E.S., BSW, Dillinger Hüttenwerke,
 Europipe, ISPAT, Mannesmann,
 Thyssen Krupp, (Germany)
 ISPAT, Steel Authority (India)
 Arvedi, Dalmine, Ilva, Riva (Italy)
 Hylsa (Mexico)
 SSAB (Sweden)
 Inchon, Posco (South Korea)
 Sahaviriya (Thailand)
 Corus (Great Britain/The Netherlands)
 Ipsco (USA).

Well-known equipment manufacturers rely on the Proxitron and Piros trademarks.

Please ask for our reference lists



- Piros light barriers**
- Piros compact infrared sensors**
- Piros infrared sensors with fibre optic cable**
- Inductive proximity switches with up to 60 mm sensing distance**
- Inductive proximity switches with over 60 mm sensing distance**
- Inductive sensor strips and surface switches**
- Inductive ring sensors**
- Inductive analogue sensors**
- Capacitive proximity switches**
- Air-flow indicators**
- Flow indicators**

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You can also find us in the internet at:

www.proxitron.de

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