

Infrared Sensors and Safety Components . . .



. . . for smelting works,
rolling mills and conveyor belts



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Infrared sensors

Product overview



Compact sensors (integrated evaluating electronics)

ICE

Compact sensor with stainless steel housing with 57 mm Ø, for ambient temperatures up to +75 °C

ICK

Compact sensor with stainless steel housing with 78 mm Ø and cooling water connection for ambient temperatures over +75 °C

Sensors with fibre optic cable

IVE

Evaluating electronics with stainless steel housing with 57 mm Ø for ambient temperatures up to +75 °C

IVK

Evaluating electronics with stainless steel housing with 78 mm Ø and cooling water connection for ambient temperatures over +75 °C

LLK

The evaluating electronics described above require a fibre optic cable and a lens. Rugged fibre optic cables with stainless steel sheathes are available in different lengths.

OK1, OK2, OK3

Lenses with stainless steel housings for various fields of view and shapes are available for different applications.

Field of view:

0.5°, 1°, 2°, 7°, 2°x25°

Fixed response temperature:

350, 430, 650, 800 °C

Variable response temperature:

300 to 900 °C adjustable or Teach-In

An object is signalled if the surface scanned completely fills the field of view and the temperature is higher than the response temperature. For sensors with a fibre optic cable the response temperature depends on the length of the fibre optic cable and the lens used.

Connections:

10–55 V DC

3-wire PNP normally open or

4-wire PNP normally open and closed

20–260 V AC/DC

2-wire normally open or closed

Angle of view, response temperature and mode of operation can be combined as required. The model identification code indicates the characteristics of the sensor.

For example ICE-V204-05-SP:

ICE compact sensor

V20 2° lens

4 450 °C response temperature

05 20–260 V AC/DC, 2-wire NC



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