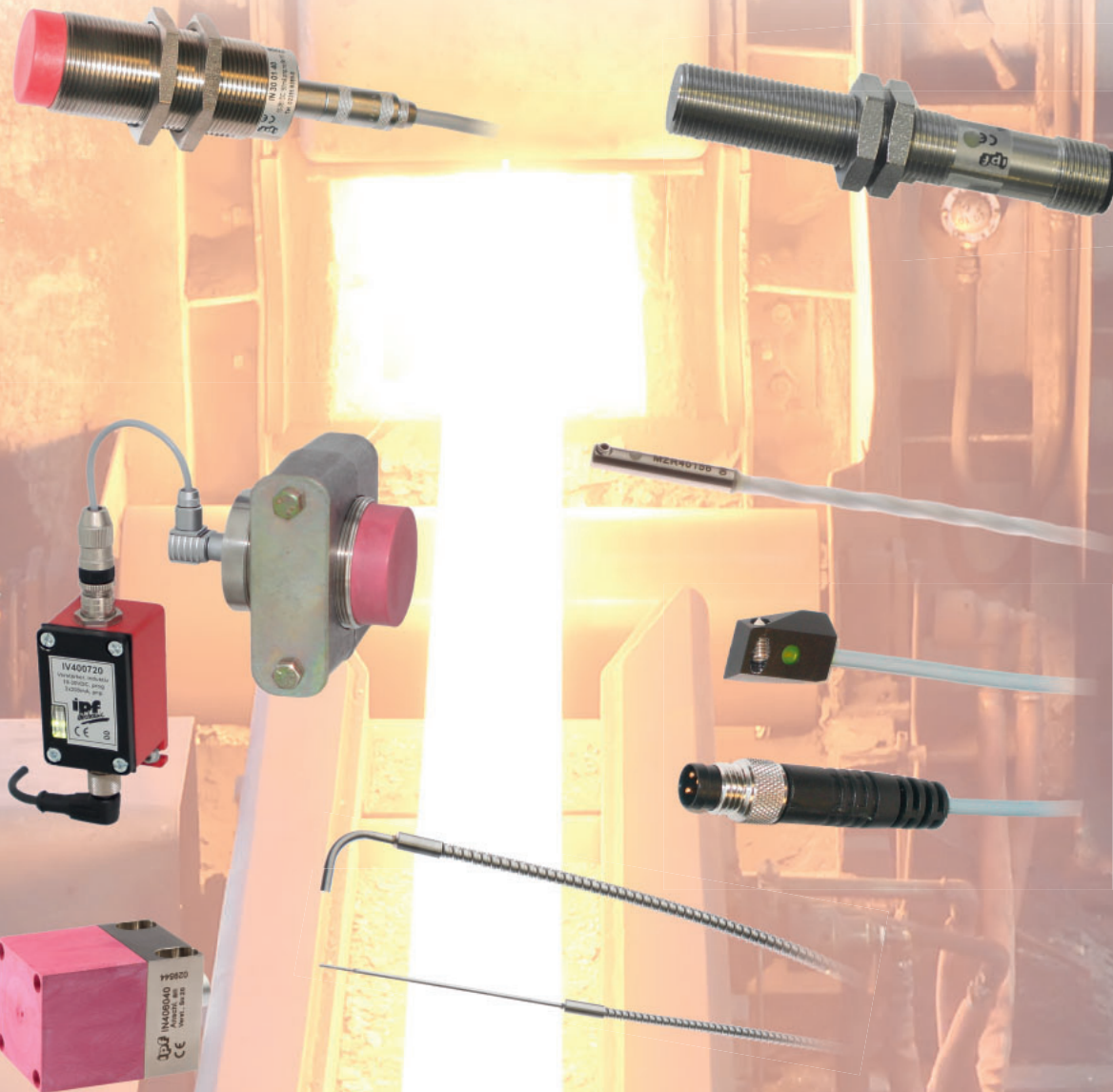


ipf
electronic



high temperature sensors
inductive up to +230° C
magnetic up to +130° C
fiber optic up to +300° C

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high temperature

high temperature sensors

inductive



application examples

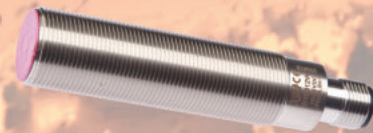
- ▶ integration in machine parts under rough industrial conditions
- ▶ position recognition in enameling furnaces
- ▶ shutter control for injection molding tools
- ▶ tool recognition in hot presses
- ▶ flap recognition on continuous furnaces
- ▶ detection of hot workpieces in the steel industry, in foundries and glass manufacture
- ▶ positioning hot parts in handling and conveying systems
- ▶ food industry, chemical industry



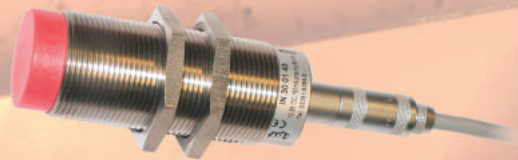
inductive all-steel high temperature sensors up to +130°C with integrated amplifier



inductive high temperature sensors up to +150°C with integrated amplifier and M12-connector



inductive high temperature sensors up to +180°C with integrated amplifier



inductive high temperature sensors up to +230°C connection to amplifier

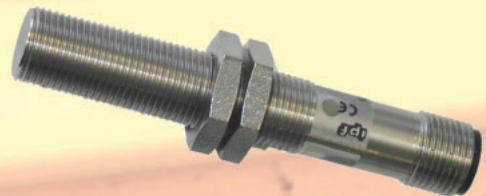


application examples

- ▶ integration in machines and conveying systems under rough conditions and strong soiling
- ▶ position recognition from the exterior through stainless steel pipes, non-ferrous metal-, aluminium-, plastic- or wooden walls
- ▶ speed inquiries in the case of rotating shafts
- ▶ position inquiries on chain guides
- ▶ inquiries concerning door positions



magnetic proximity switch up to +130°C



application examples

- ▶ position recognition of a cylinder piston in pneumatic cylinders
- ▶ position recognition of a cylinder piston with magnetic ring in hydraulic cylinders
- ▶ limit of travel enquiry on pneumatic cylinders, molding tools, clamping devices, gripping systems, lift stations or handling systems



magnetic cylinder sensors up to +130°C



used in

- ▶ C-groove-,
- ▶ T-groove- and
- ▶ dovetailed cylinders

high temperature sensors

fiber optic



application examples

- ▶ optical application solution for ambient temperatures up to +180°C
- ▶ contact-free detection, counting, controlling and positioning where space is limited
- ▶ scanning of small parts in processing stations, supply systems and machines
- ▶ application in extreme operational areas, e.g. in welding systems
- ▶ sensing heads in many designs (e.g. angle sensing heads)
- ▶ robust, vibration-proof and high flexible
- ▶ for temperatures from -40°C up to +180°C
- ▶ resistant against magnetic and high frequency fields



special versions with metal-sheath and special adhesive from -40°C up to +300°C



a complete system composed of fiber optic amplifier and fiber optic cable

