# ICS08 IO-Link 3-wire DC



## Miniaturized proximity inductive sensors with IO-Link communication



#### **Benefits**

- A complete family. Available in M8 male thread robust stainless steel housings with an operating distance of 2 to 4 mm.
- Easy to install. Both flush and non-flush construction are available. The user can choose between short and long body housings in 2 m PVC cable or M8-disconnect plug versions.
- High precision. The onboard advanced microcontroller ensures better stability with respect to environmental influences, with highly repeatable measurements between -25 and +80°C.
- Easy customization to specific OEM requests: different cable lengths and materials, special labelling, customized pig-tail solutions with special cables and connectors are possible on request.



#### Description

ICS08 series represents the optimal solution for industrial automation equipment in applications where space is limited, but long switching distance is needed, including tool-selection and textile machines. The advanced electronics is encapsulated in a robust stainless steel housing. The availability of the M8-plug and 2m-PVC cable connection in short or long housing construction allows flexible mounting.

On-board IO-Link communication opens up many possibilities, such as easy configuration and setup of the devices and advanced parameter setting.



### Only for IO-Link sensors

- The output can be operated either as a switching output or in IO-Link mode.
- Fully configurable via IO-Link v1.1. Electrical outputs can be configured as PNP/NPN/Push-pull, normally open or normally closed.
- Timer functions can be set, such as switch-on and switch-off delay
- Adjustable sensing distance and hysteresis: sensing distance can be set to 50% or 100% of the maximum sensing distance
- Temperature monitoring: over or under-run temperature alarms can be set





#### **Applications**

- · Non contact detection of metal objects in general position-sensing and presence-sensing in industrial applications
- · Particularly suitable for rotational speed monitoring thanks to the high operating frequency



#### **Main functions**

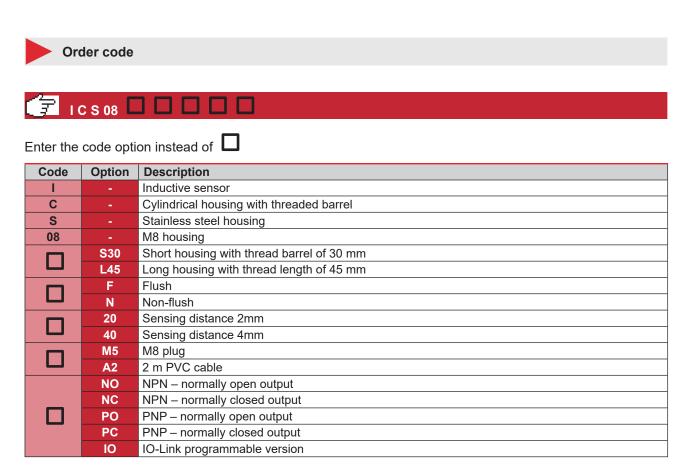
· Integrated diagnostic function with flashing LED in the event of a short circuit or overload



### **IO-Link sensors**

- The devices can be operated in IO-Link mode once connected to an IO-Link master, or in standard I/O mode.
- In IO-Link mode the switching signals of the sensor are made available in the process data via the IO-Link interface.
- · Several sensor functions can be set via the IO-Link interface:
  - ▶ Adjustable switching distance: 50% or 100% of the maximum switching distance.
  - ► Adjustable hysteresis: standard or increased value.
  - ▶ Divider function: the sensor gives a signal after a specified number of actuation pulses has been reached.
  - Switch-on delay: the switching pulse is generated after the sensor actuation.
  - Switch-off delay: the generation of the switch signal is delayed by the set time after sensor actuation.
  - ► Temperature error: temperature is out of specifications.
  - ▶ Temperature over-run and under-run: temperature is out of the limits defined by the user.

# References



Additional characters can be used for customized versions.