ICS08 IO-Link 3-wire DC



Miniaturized proximity inductive sensors with IO-Link communication



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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

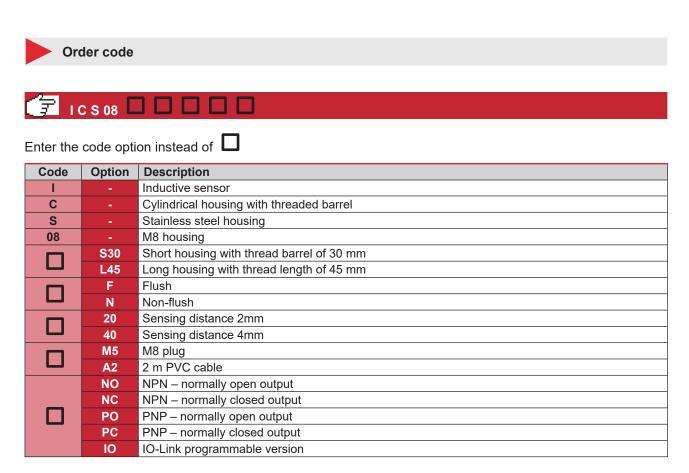
· Integrated diagnostic function with flashing LED in the event of a short circuit or overload



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.