

Intelligent IO-Link adapter

Interface-01-IO-V1

Operating Instructions

This device is an intelligent IO-Link adapter which evaluates the output signal of binary or analog sensors and forwards the results to the PLC via IO-Link.



- ① M12 socket (female): Sensor connection
- ② Green LED: Operating voltage indicator
- ③ Yellow LED: Switching output 1, data bit 0
- ④ M12 connector (male): Output IO-Link

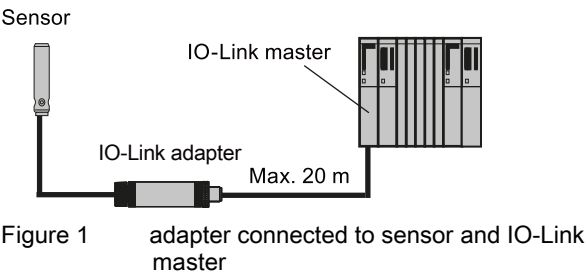
Ordering data

Product	Order No.
IO-Link adapter	Interface-01-IO-V1
Y connector	6ES7194-1KA01-0XA0-PF



Connecting a sensor

Wiring diagram



Wiring is implemented using standard cables and connectors according to IEC 60947-5-2. Max. two analog or binary sensors can be connected.

For compatible connecting accessories, see the Accessories chapter.

Pin assignment

Table 1 Pin assignment M12 socket ①
(female, sensor connection)

	Pin	Assignment
1	1	L+ (24 V)
2	2	Input 2
3	3	L- (0 V)
4	4	Input 1

Table 2 Pin assignment M12 connector ④
(male, IO-Link connection)

	Pin	Assignment
1	1	L+ (24 V)
2	2	Xi (output 2)
3	3	L- (0 V)
4	4	C/Q (output 1: IO-Link)

Connection example

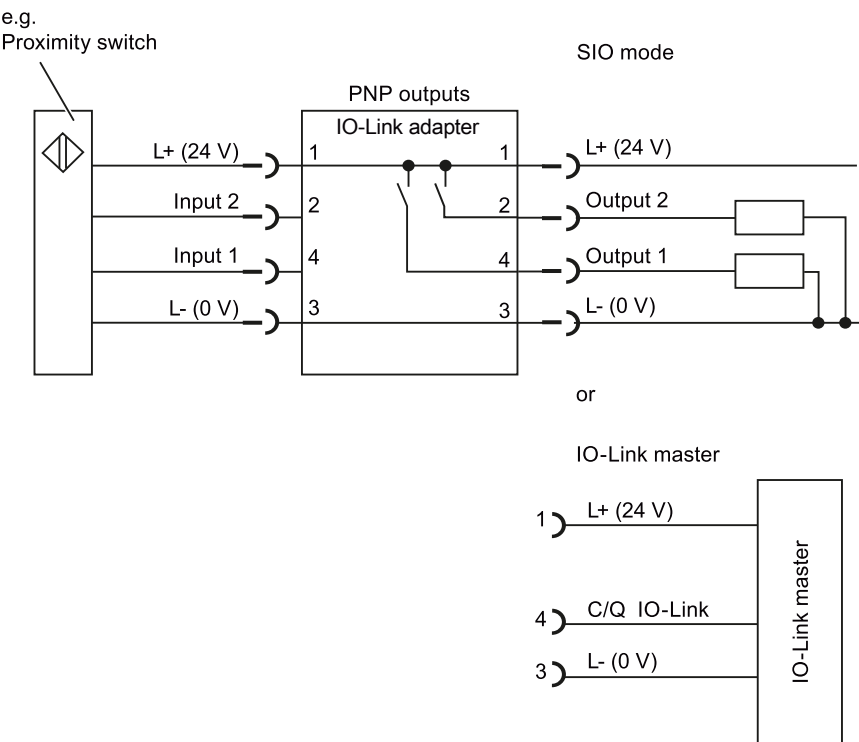


Figure 2 Connection example

Connection of two sensors using a Y connector

Two sensors can be connected to the IO-Link adapter via a Y connector.

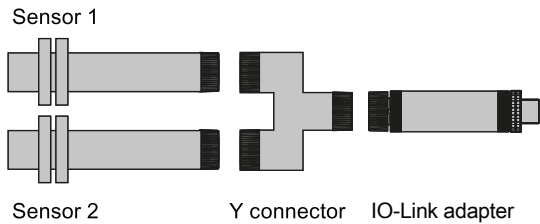


Figure 3 Connection of two sensors

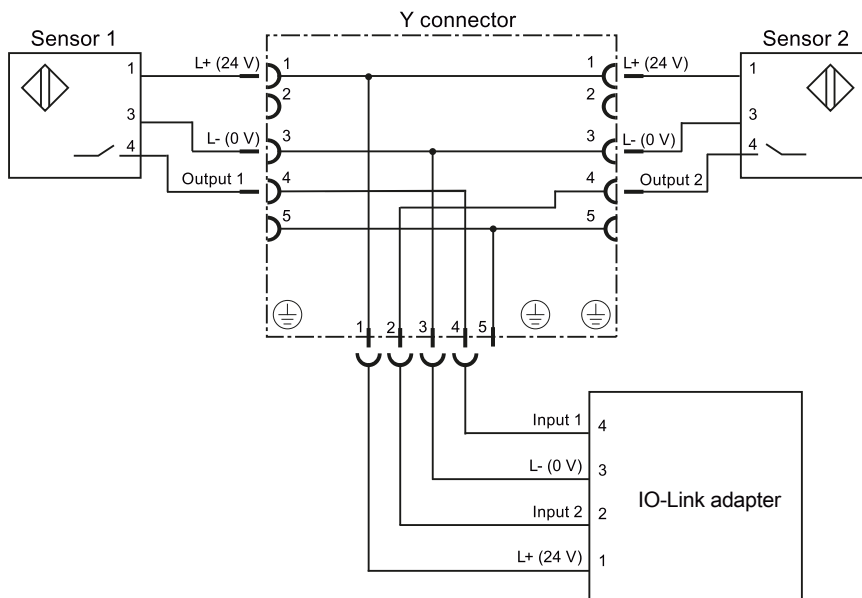


Figure 4 Y connector wiring

Wiring and pin assignment of the Y connector

The connector distributes the voltage via pins 1 and 3 to the two input sockets of the corresponding pins on the adapter. In accordance with EN 60947-5-2, switching outputs with NC functionality are always assigned to pin 2 and switching outputs with NO functionality are always assigned to pin 4.

Both NO outputs (each pin 4) are fed to the adapter with the Y connector on pins 2 and 4. It is therefore not possible to wire proximity switches with NC contacts to pin 2.

Commissioning

First commissioning

If no function has been selected yet, both outputs are set to 0. The green power LED lights up permanently.

Technical data

General technical data

Ambient temperature for operation and storage	-25 °C to +85 °C ¹⁾
Degree of protection	IP67
Supply voltage	10-30 V
Current consumption at 24 V	20 mA
Max. current for sensor supply	100 mA ²⁾
Minimum pulse duration	50 µs
Weight	45 g
Enclosure material	Polycarbonate

¹⁾ Reduced accuracy is permissible in operation above +70 °C.

²⁾ It is possible to connect two sensors. 100 mA is the sum for both sensors.

Dimension drawing

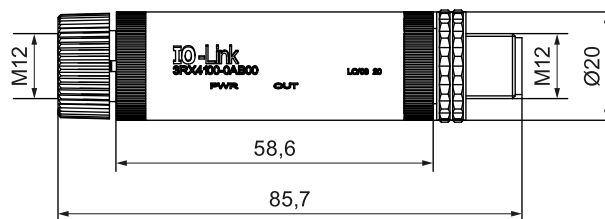


Figure 5 Dimension drawing

All dimensions in mm