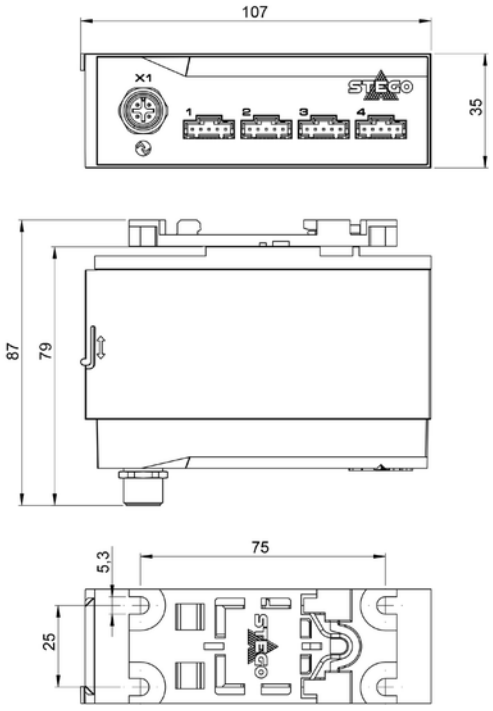
SENSOR HUB & SENSORS

SHC 071 | IO-Link, DC 24 V, 4 Sensor Ports



- > Digital IO-Link Interface
- > Small dimensions
- > Easy DIN rail and screw mounting
- > M12 plug-in connector
- > For 1 to 4 digital STEGO sensors
- > Quick connection of sensors via connectors
- > 4 sensor types

The IO-Link Sensor Hub SHC 071 records measuring data of up to four external, non IO-Link STEGO sensors on process level and transmits data via an IO-Link Master to a superior control and monitoring level: edge computer, cloud, PLC, etc. Standard IO-Link sensors, on the other hand, connect to one IO-Link Master slot each. By use of the sensor hub, up to four external sensors can be connected, but they only connect to one IO-Link Master slot and thus have a positive savings effect on the slot capacities of the IO-Link Master device (see illustrations Connection Comparison). The number of sensors to be connected and use of connection slot on the sensor hub is free (max. four). Combined with other digital field devices and the STEGO CONNECT platform, the Sensor Hub can be part of a powerful IO-Link IIoT system. Please visit our website on www.stego-connect.com for more information. Convenient mounting of the sensor hub in six different positions for ideal positioning on DIN rail, or with screws, is possible with a universal mounting bracket included with the delivery (see Operating Instructions).



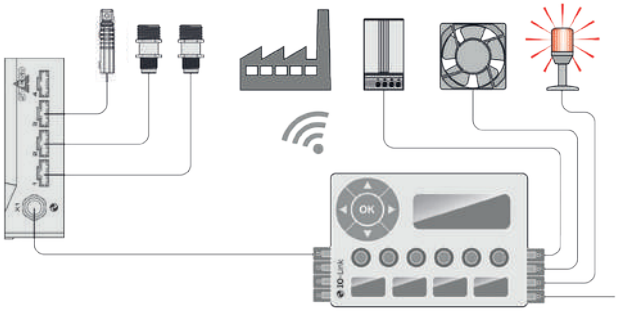
Universal mounting bracket for DIN rail and screw mounting

IO-Link CE RoHS 3

TECHNICAL DATA

Sensor connection	4 slots with strain relief for up to 4 STEGO sensors[1]
IO-Link connection	M12 round plug connector, IEC 61076-2-101, 4-pin, A-coded
Electrical protection	Reverse-polarity, short circuit, overvoltage protection
Mounting	clip for 35 mm DIN rail, EN 60715 and screw mounting (M5)
Casing	plastic according to UL94 V-0, light grey
Dimensions	107 x 35 x 79 mm (87 mm with universal mounting bracket)
Weight	approx. 110 g
Fitting position	variable
Operating/Storage temperature	-40 to +80 °C (-40 to +176 °F) / -40 to +85 °C (-40 to +185 °F)
Operating/Storage humidity	max. 90 % RH (non-condensing)
Operating altitude	≤ 4,000 m above sea level
Protection type/Protection class	IP40 / III (SELV)
Certificates	CB No. DE1-63389 In conformity with IEC 61010-1 Evaluated in accordance with UL und CSA standards

[1] Please order STEGO sensors separately.



Example of connection

Art. No.	Interface	Operating voltage	Power consumption max.
07100.2-00	IO-Link (digital, specified acc. to version 1.1)	DC 24 V (DC 18-30 V)	0.5 W

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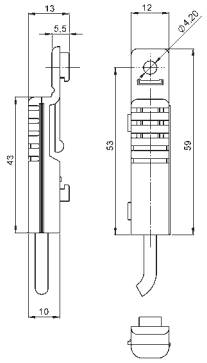
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DIGITAL PLUG & CONNECT SENSORS FOR IO-LINK SENSOR HUB SHC 071

The IO-Link Sensor Hub SHC 071 does not come with sensors and connection cables, these need to be ordered separately. The digital Plug & Connect sensors listed below are suitable for connection with the sensor hub. The sensors are pre-calibrated and ready for use; there is no need for individual calibration. Their small dimensions and offering of different cable lengths allow flexible positioning and easy mounting, mounting clips included.

DIGITAL PLUG & CONNECT TEMPERATURE AND HUMIDITY SENSOR SEN 073, IP20





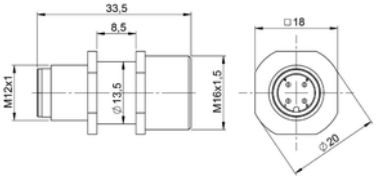
TECHNICAL DATA

Mounting	clip for 35 mm DIN rail, EN 60715 and screw mounting (M4)
Casing	plastic according to UL94 V-0, light grey
Dimensions/Weight	59 x 12 x 13 mm
Fitting position	variable
Response time T_{63}	1.5 min. (Temperature), 7 sec. (Humidity)
Operating/Storage temperature	-40 to +85 °C (-40 to +185 °F)
Operating/Storage humidity	100 % RH / max. 90 % RH (non-condensing)
Operating altitude	≤ 4,000 m above sea level

Art. No.	Sensor	Connection	Temperature measuring range	Humidity measuring range	Weight (approx.)	Protection type
07300.1-00	Temperature + rel. Humidity	cable with connector, shielded, 1.0 m	-40 to +80 °C (-40 to +176 °F) ±0.2 K	0 to 100 % RH ±2 %	40 g	IP20
07300.1-01	Temperature + rel. Humidity	cable with connector, shielded, 2.0 m	-40 to +80 °C (-40 to +176 °F) ±0.2 K	0 to 100 % RH ±2 %	70 g	IP20

DIGITAL PLUG & CONNECT TEMPERATURE AND HUMIDITY SENSOR SEN 073, IP64





TECHNICAL DATA

Mounting	incl. mounting clip for screw mounting, Ø 3 mm, see photo
Casing	stainless steel
Dimensions/Weight	33.5 x Ø 20 mm / approx. 25 g
Fitting position	variable
Response time T_{63}	2 min. (Temperature), 20 sec. (Humidity)
Operating/Storage temperature	-40 to +70 °C (-40 to +158 °F) / -40 to +85 °C (-40 to +185 °F)
Operating/Storage humidity	100 % RH / max. 90 % RH (non-condensing)
Operating altitude	≤ 4,000 m above sea level

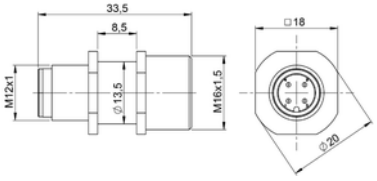
Art. No.	Sensor	Temperature measuring range	Humidity measuring range	Connection	Protection type
07300.0-00	Temperature + relative Humidity	-40 to +70 °C (-40 to +158 °F) ±0.2 K	0 to 100 % RH ±2 %	M12 plug IEC 61076-2-101, 4-pin, A-coded	IP64



Photo: Mounting clip for screw mounting, Ø 3 mm (included)

DIGITAL PLUG & CONNECT PRESSURE AND TEMPERATURE SENSOR SEN 073, IP64





TECHNICAL DATA

Mounting	incl. mounting clip for screw mounting, Ø 3 mm, see photo
Casing	stainless steel
Dimensions/Weight	33.5 x Ø 20 mm / approx. 25 g
Fitting position	variable
Response time T_{63}	5 sec. (Absolute Pressure), 2.5 min. (Temperature)
Operating/Storage temperature	-40 to +70 °C (-40 to +158 °F) / -40 to +85 °C (-40 to +185 °F)
Operating/Storage humidity	100 % RH / max. 90 % RH (non-condensing)
Operating altitude	≤ 4,000 m above sea level

Art. No.	Sensor	Pressure measuring range[1]	Temperature measuring range[2]	Connection	Protection type
07301.0-00	Absolute Pressure + Temperature	300 to 1100 hPa	-40 to +70 °C (-40 to +158 °F)	M12 plug IEC 61076-2-101, 4-pin, A-coded	IP64

[1] Resolution: 0.1 hPa; Accuracy, absolute: ±1.7 hPa within temperature range -20 to 0°C (-4 to +32 °F), ±1.0 hPa within temperature range 0 to +65°C (+32 to +149 °F);
[2] Resolution: 0,1 °C; Accuracy, absolute: ±1.0 °C within temperature range 0 to +65°C (+32 to +149 °F), ±0.5 °C at +25 °C (+77 °F);

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DIGITAL PLUG & CONNECT LIGHT SENSOR SEN 073



In 2021 we can also offer an ambient light sensor, measuring the intensity of visible light. The spectral response of the sensor will tightly match the photopic response of the human eye. Please contact us for more information.

Sensor	Illuminance range	Accuracy, relative	Connection
Visible Light	0.01 to 83,865 lx	0.2 %	M12 plug IEC 61076-2-101, 4-pin, A-coded

ACCESSORIES FOR DIGITAL PLUG & CONNECT SENSORS SEN 073

CABLES

These cables are needed for the connection of the IO-Link Sensor Hub SHC 071 and the digital Plug & Connect Sensors SEN 073 Temperature and Humidity IP64 (Art. No. 07300.0-00) and Pressure and Temperature IP64 (Art. No. 07301.0-00). The standard cable is 2.0 m long and fully assembled. Sensor cables in lengths of 5.0 m and 20.0 m can be ordered for individual adjustments of the cable length for an application.

Art. No.	Cable	Length	Connection
244445	Sensor cable with connector, interlocking, shielded	2.0 m	fully assembled with female M12 plug IEC 61076-2-101, 4-pin, A-coded, shielded
244446		5.0 m	for self-assembly, incl. female M12 plug IEC 61076-2-101, 4-pin, A-coded, shielded
244447		20.0 m	for self-assembly, incl. female M12 plug IEC 61076-2-101, 4-pin, A-coded, shielded

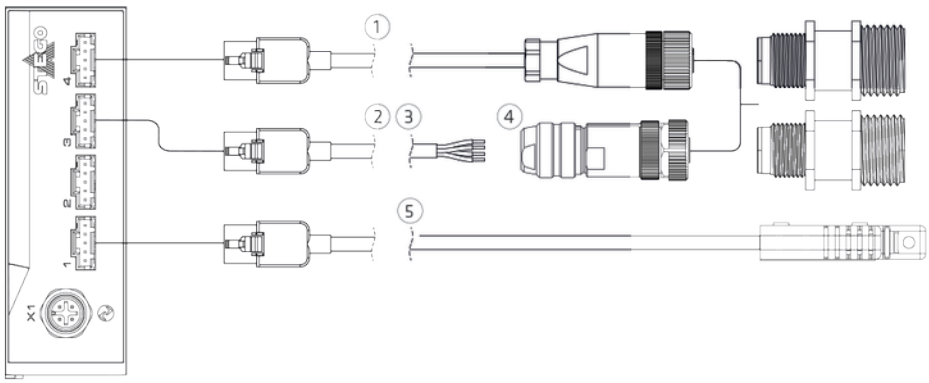


Photo: Fully assembled sensor cable with connector and female M12 plug, 2.0 m long (Art. No. 244445)



Photo: Sensor cable with connector incl. female M12 plug for self-assembly, 5.0 m long (Art. No. 244446) and 20.0 m long (Art. No. 244447)

CONNECTION EXAMPLE



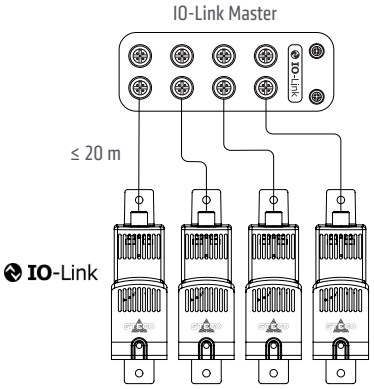
The illustration shows the IO-Link Sensor Hub SHC 071 with different sensors and connection cables (from top down):
(1) Cable with connector and female M12 plug in 2.0 m length (Art. No. 244445)
(2) Cable with connector in 5.0 m length (Art. No. 244446) and (3) 20.0 m length (Art. No. 244447), each incl. (4) female M12 plug for self-assembly
(5) Temperature and Humidity Sensor SEN 073, IP20, in 1.0 m or 2.0 m cable length with connector

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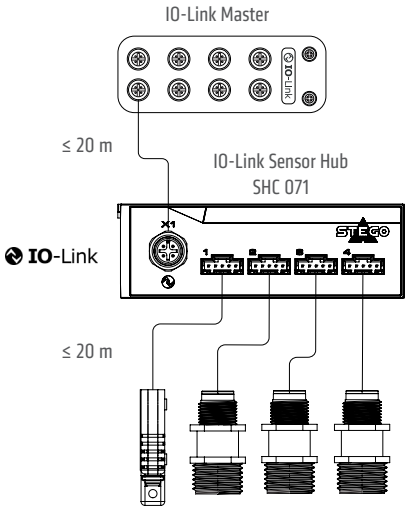
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CONNECTION COMPARISON IO-LINK SENSOR HUB SHC 071 VS. IO-LINK SENSORS

Even with four external sensors connected, the Sensor Hub SHC 071 only uses one IO-Link Master slot. This may possible add a (cost) savings effect on the slot capacities of the IO-Link Master. The illustrations also show that the cable lengths can be extended from 20 m to 2 x 20 m when using the sensor hub.



4 x IO-Link Smart Sensors
CSS 014



Digital Plug & Connect Sensors SEN 073
for IO-Link Sensor Hub SHC 071

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