Data sheet

ISD400-1111

ISD400

OPTICAL DATA TRANSMISSION

SICK
Sensor Intelligence.

Illustration may differ

Ordering information

Type	part no.
ISD400-1111	1042286

Other models and accessories → www.sick.com/ISD400

Detailed technical data

Technical specifications

Accessory group	Optical data transmission
Accessory family	ISD400
Weight	Approx. 900 g
Housing material	Metal
Enclosure rating	IP65
Ambient operating temperature	–25 °C ... +55 °C
Permissible relative humidity	90 %, Non-condensing

Mechanics/electronics

Power consumption	≤ 4.8 W [1]
Protection class	III

[1] Without load.

Performance

Transmission range	≥ 0.2 m
Light source	LED, infrared (880 nm)
Typ. light spot size (distance)	1.75 m (at 100 m)

Interfaces

PROFIBUS DP	✓
Data transmission rate	3 Mbit/s
Digital input	V_S: sender deactivated
Digital output	
Number	1 [1]
Type	PNP
Signal delay	≤ 1 µs, + 2 Tbit [2]

[1] HIGH: U_V – 3 V, LOW: < 2 V.

[2] 1 µs + 2 Tbit only for PROFIBUS.

Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2, EN 61000-6-4 [1]
Ambient temperature, operation	–25 °C ... +55 °C
Max. rel. humidity (not condensing)	90 %, Non-condensing

[1] This is a Class A device. This device can cause radio interference in living quarters.

General notes

Note	2 devices are required to construct a data transmission path. The devices are identical and must be ordered separately. Frequencies F1 and F2 can be set.

Features

Weight	Approx. 900 g
Housing material	Metal
Enclosure rating	IP65
Ambient operating temperature	–25 °C +55 °C
Permissible relative humidity	90 % Non-condensing

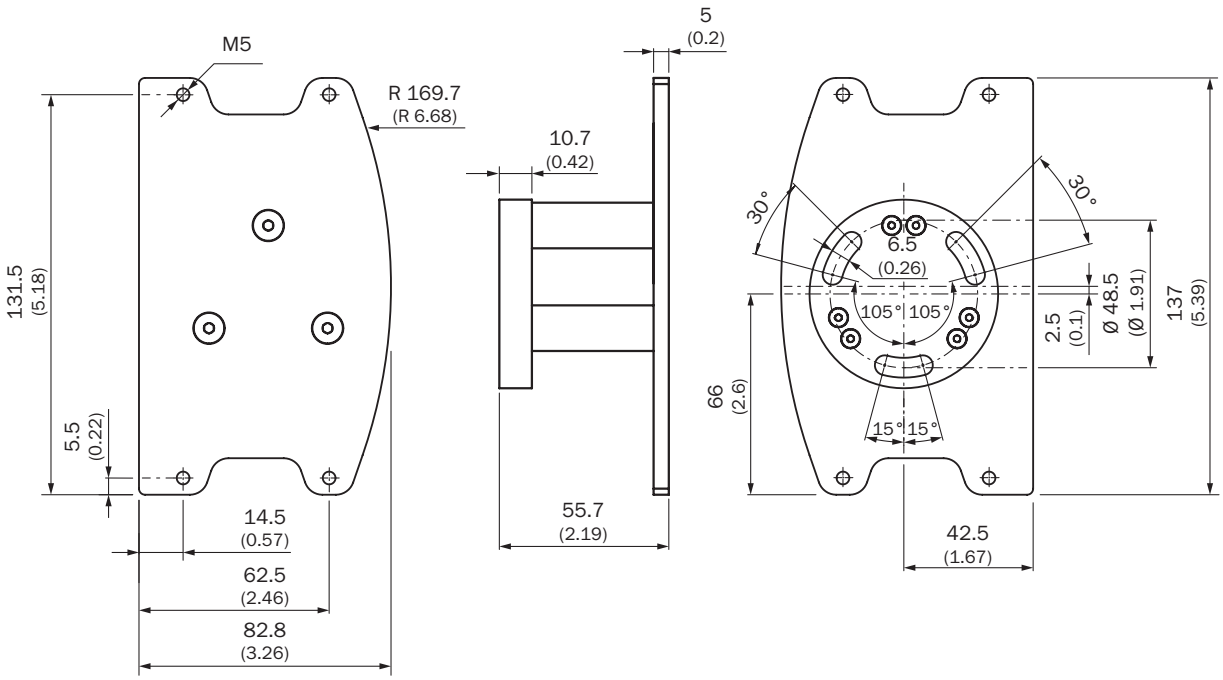
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓

Classifications

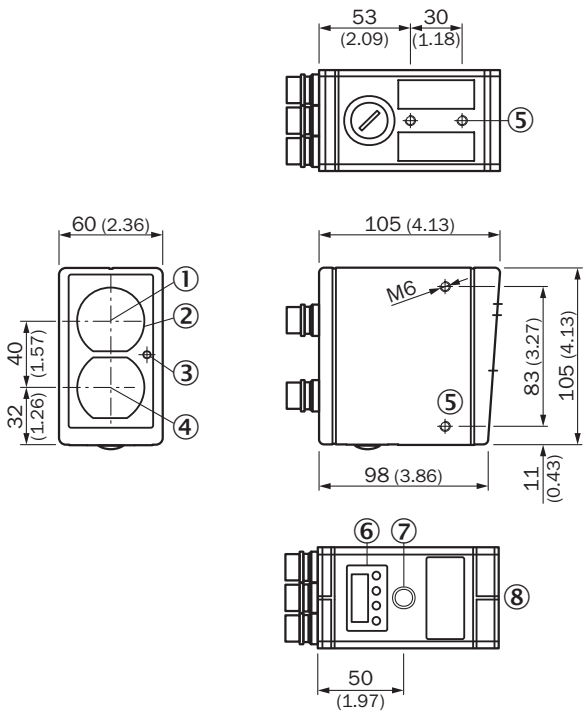
ECLASS 5.0	19039001
ECLASS 5.1.4	19039001
ECLASS 6.0	19179090
ECLASS 6.2	19179090
ECLASS 7.0	19179090
ECLASS 8.0	19179090
ECLASS 8.1	19179090
ECLASS 9.0	19179090
ETIM 5.0	EC000515
ETIM 6.0	EC000515
UNSPSC 16.0901	43201404

Dimensional drawing



Dimensions in mm (inch)

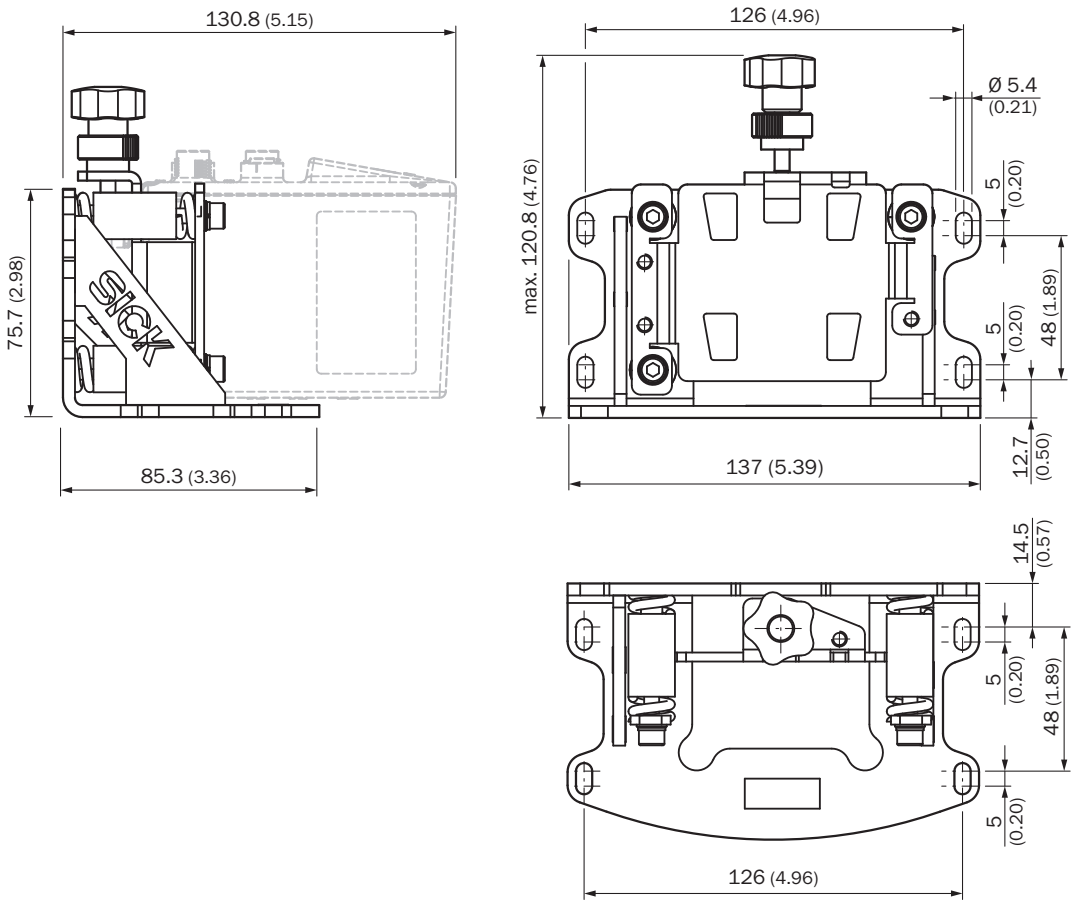
Dimensional drawing



Dimensions in mm (inch)
① Optical axis, sender
② View finder lens
③ Function indicator/level warning

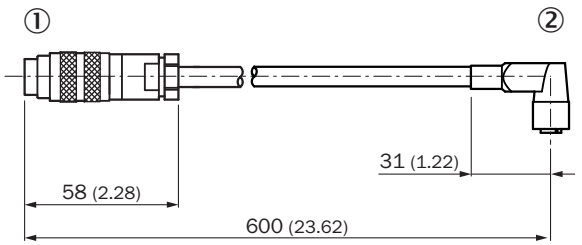
④ Optical axis, receiver
⑤ Threaded mounting hole M6
⑥ Liquid crystal display with function keys
⑦ Optical adjustment aid
⑧ Alignment sight

Dimensional drawing



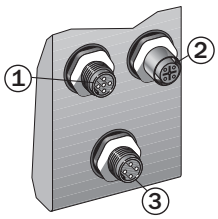
Dimensions in mm (inch)

Dimensional drawing

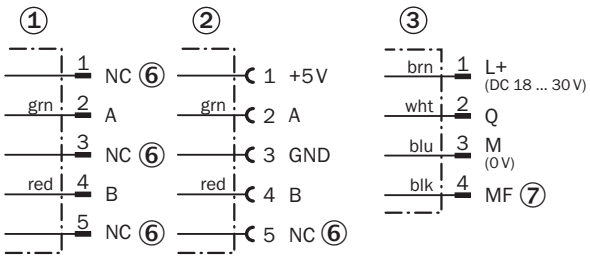


Dimensions in mm (inch)
① Connector M16, 8-pin
② male connector M12, 8-pin

Connection type ISD400 RS-485/PROFIBUS

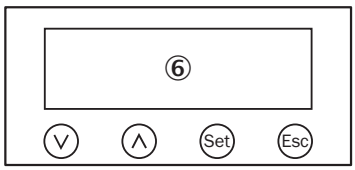


Anschlussschema



⑥ NC = not connected
⑦ Multifunctional input (MF)

Adjustments



⑥ Liquid crystal display with function keys

Recommended accessories

Other models and accessories ➜ www.sick.com/ISD400

	Brief description	Type	part no.
Mounting systems			
	• **Description:** Alignment unit for DME4000/ISD400, aluminum, anodised	BEF-DME/ISD	2046052

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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