SICK.COM



DATA SHEET

ISD400-1111

ISD400
Optical data transmission

SICK Sensor Intelligence



Illustration may differ

OPTICAL DATA TRANSMISSION

ISD400-1111

ORDERING INFORMATION

Type	part no.
ISD400-1111	1042286

Further device versions and accessories at www.sick.com/ISD400

DETAILED TECHNICAL DATA

FEATURES

Product segment	Optical data transmission
Product	ISD400
Product version	ISD400 Core
Housing material	Metal
Enclosure rating	IP65
Light source	LED, infrared, 880 nm
Power consumption	[1]
Ambient operating temperature	–25 °C ... +55 °C
Relative humidity	90 %, Non-condensing
Weight	Approx. 900 g

[1] Without load.

MECHANICS/ELECTRONICS

Supply voltage V_s	DC 18 V ... 30 V
Power consumption	≤ 4.8 W [1]
Transmission range	0.2 m 180 m
Connection type	Connector, M12, 4-pin
Enclosure rating	IP65
Protection class	III

[1] Without load.

PERFORMANCE

Transmission range	0.2 m ... 180 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 [1] EN 61000-6-4
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.

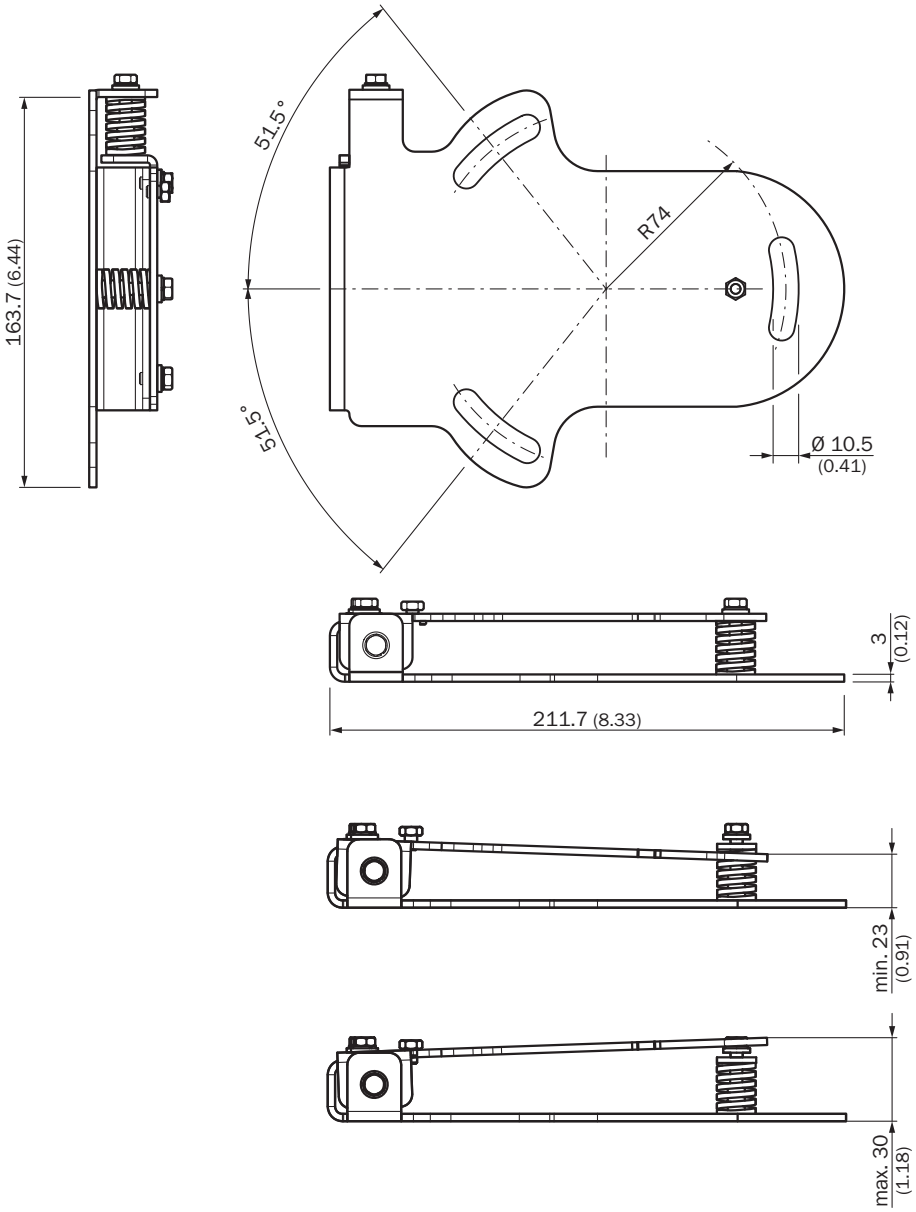
GENERAL NOTES

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.

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓

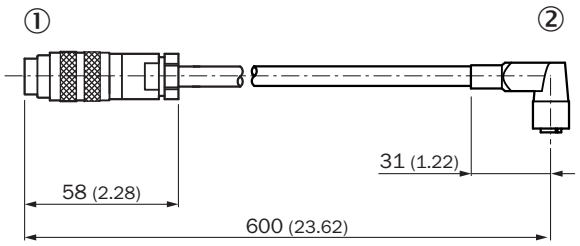
DIMENSIONAL DRAWING: BEF-DME/ISD



All dimensions in mm (inch)

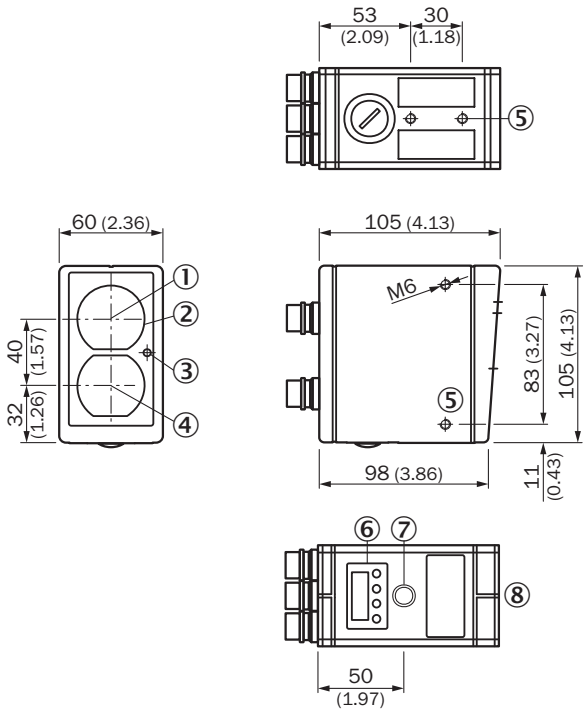
Dimensions in mm (inch)

DIMENSIONAL DRAWING: DSC-1608-1208



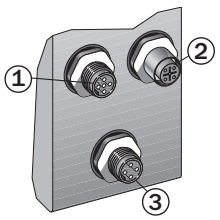
Dimensions in mm (inch)
① Connector M16, 8-pin
② male connector M12, 8-pin

DIMENSIONAL DRAWING, SENSOR

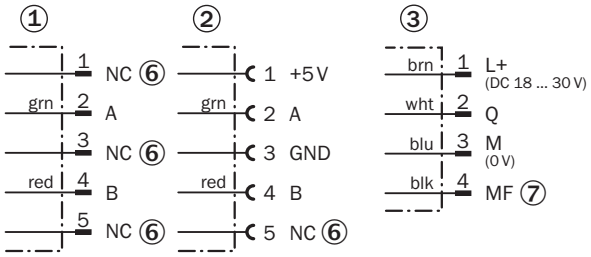


Dimensions in mm (inch)
① Optical axis, sender
② View finder lens
③ Function indicator/level warning
④ Optical axis, receiver
⑤ Threaded mounting hole M6
⑥ Liquid crystal display with function keys
⑦ Optical adjustment aid
⑧ Alignment sight

CONNECTION TYPE ISD400 RS-485/PROFIBUS

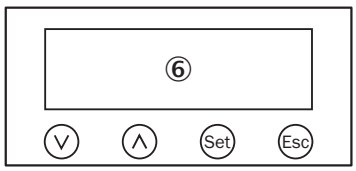


ANSCHLUSSSCHEMA



⑥ NC = not connected
⑦ Multifunctional input (MF)

ADJUSTMENTS



⑥ Liquid crystal display with function keys

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1042286

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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