

WI180C-EN





Ordering information

Туре	Part no.
WI180C-EN	6068090

Other models and accessories → www.sick.com/



Detailed technical data

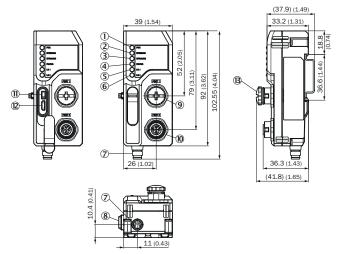
Technical specifications

Accessory family	Fieldbus modules
Enclosure rating	IP54
Dimensions (W x H x L)	39 mm x 36.3 mm x 102.35 mm
Description	EtherNet/IP coupler for WLL180T, KTL180 and AOD1. Features: EtherNet/IP; transmission rates of up to 100 Mbaud; M12 EtherNet/IP connection; M8 voltage supply connection, 4-pin; full read/write functionality for the process and service data of the connected sensors. See operating instructions for additional information and technical details.

Classifications

ECLASS 5.0	27242202
ECLASS 5.1.4	27242602
ECLASS 6.0	27242602
ECLASS 6.2	27242602
ECLASS 7.0	27242602
ECLASS 8.0	27242602
ECLASS 8.1	27242602
ECLASS 9.0	27242602
ECLASS 10.0	27242602
ECLASS 11.0	27242602
ECLASS 12.0	27242602
ETIM 5.0	EC001597
ETIM 6.0	EC001597
ETIM 7.0	EC001597
ETIM 8.0	EC001597
UNSPSC 16.0901	32151705

Dimensional drawing (Dimensions in mm (inch))



- ① PWR-LED
- ② BF/ERR/NS-LED
- ③ SF/RUN/MS-LED
- 4 Status LED
- ⑤ L/A1-LED
- 6 L/A2-LED
- 7 Power connection: male connector M8, 4-pin
- ® Bus male connector, 5-pin
- $\textcircled{9} \ \, \text{D-coded M12 plug connector, 4-pin, EtherNet/IP} \\$
- D-coded M12 plug connector, 4-pin, EtherNet/IP
- factory reset button
- ② Service port (USB, Micro-B)
- M12 connector cap (accessory)

Technical data

Electrical

EtherNet/IP

Supply voltage	12 - 24 VDC ±10 %	
Power consumption (with- out connected devices)	3 W	
Switch-on delay	1000 ms	
Switch-on delay (overall system)	2000 ms	
LEDs	PWR, BF/ERR/NS, SF/RUN/MS, SYSTEM, L/A1, L/A2	
Power supply	Male M8 plug connector, 4-pin	
Other interfaces	Male bus connector, 5-pin, internal system bus 2 x M12 4-pin D-coded, EtherNet/IP	
Maximum number of mod- ules to be connected	16	
Transmission speed	100 MBit/s	
Maximum distance between nodes	100 m	
Process data (implicit connection)	Depending on selected assemblies Minimum cycle time	
Asynchronous data (explicit connection)	Supplier specific classes for each modul	
Maximum number of connections	8	
CIP services	DLR,QoS	
Compliant standard	IEEE802.3u (100Base-Tx)	
Ethernet ports	2	
EDS file	Available on www.sick.com	
Noise immunity (Length of cable ≤30 m)	in accordance with EN 61000-6-2/ EN 61131-2	
Emission	in accordance with EN 55011, class A	
Protection class	3	
Short-circuit protection	in accordance with VDE 0160	
Protection category	IP541	
Sensitivity to vibrations	IEC 60068, 10 - 55 Hz	
Shock resistance	IEC 60068, 500 m/s ² (~50 g)	

Product safety

Mechanical

Housing material
Dimensions (HxWxD) in

Environmental parameters

1	Valid, if WI180C-PN is cor	nected via interna	al system bus with	modules which	tulitili IP54

Polycarbonate 39 x 102.55 x 36.3

Air humidity (operation/storage)	35 – 85 % relative humidity
Temperature range (storage)	-40 - +70 °C
Temperature range (Operation, ≤3 connected devices)	-25 - +55 °C ¹
Temperature range (Operation, ≤8 connected devices)	-25 - +50 °C ¹
Temperature range (Operation, ≤16 connected devices)	-25 - +45 °C ¹

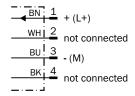
devices)

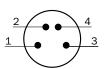
1 Temperature ranges valid if no output current on connected devices

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Cd-416

Supply voltage port

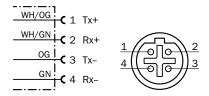




Pin	Pin assignment	Wire color	Description
1	L+	Brown	+12 24 VDC
2	n.c.	n/a	Not assigned
3	M	Blue	GND
4	n.c.	n/a	Not assigned

Cd-451

EtherNet/IP port 1 and 2 (M12 male connector, 4-pin, D-coded)



M12 (D-coded)

Pin	Pin assignment	Wire color	Description
1	Tx+	White/orange	Send data signal, not inverted
2	Rx+	White/green	Receive data signal, not inverted
3	Tx-	Orange	Send data signal, inverted
4	Rx-	Green	Receive data signal, inverted

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For us, that is "Sensor Intelligence."

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