

WI180C-IOA00





Ordering information

Туре	Part no.
WI180C-I0A00	6071650

Other models and accessories → www.sick.com/



Detailed technical data

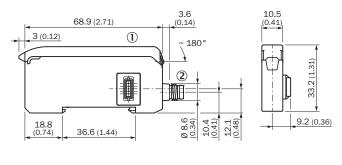
Technical specifications

Accessory family	Interface modules
Enclosure rating	IP50
Dimensions (W x H x L)	39 mm x 36.3 mm x 102.35 mm
Description	IO-Link Smart Sensor Gateway for WLL180T, KTL180 and AOD1; Features: IO-Link; COM3; M8 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

eCl@ss 5.0	27242202
eCl@ss 5.1.4	27242602
eCl@ss 6.0	27242602
eCl@ss 6.2	27242602
eCl@ss 7.0	27242602
eCl@ss 8.0	27242602
eCl@ss 8.1	27242602
eCl@ss 9.0	27242602
eCl@ss 10.0	27242602
eCl@ss 11.0	27242602
eCl@ss 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))





Technical data

Features	Supported products	WLL180T fiber amplifiers
reduies	Supported products	KTL180 fiber contrast sensors
		OD1 displacement sensors (via AOD1 amplifier)
		OL1 displacement sensors (via AOD1 amplifier)
	Further functions	IO-Link connection for easy configuration of the WI180C-IO Sensor
		Integration Gateway with SOPAS ET, the engineering tool from SICK
Mechanics/ Electronics	Supply voltage	10.8 - 26.4 V (SIO), 18 - 26.4 V (IO-Link)
	Power consumption (without connected devices)	40 mA
	Switch-on delay	300 ms (connected to one WLL180T/KTL180)
	Switch-on delay (overall system)	350 ms (connected to 16 WLL180T/KTL180)
		2.5 s (connected to one AOD1 with OD1)
	Optical indicators	1 Green (Power/C)
		2 Orange (Q1, Q2)
	Switching output	Push/Pull
	Output: QL1 / C	Switching output or IO-Link mode
	Output current Imax	≤ 100 mA ⁶
	Pin 2 configuration	External input, Teach-in, switching signal
	Connection type	Male connector M8, 4-pin
	Circuit protection	A ²
		B ³
		C ^t
	Protection class	III
	Weight	20 g
	Dimensions (W x H x D)	10.5 mm x 34.6 mm x 71.9 mm
	Housing material	Plastic, ABS/PC
	Enclosure rating	IP50 ⁵
Safety-related parameters	MTTFd	520.7 years
	DCavg	0%
Smart Task	Smart Task name	Base logics (SLTI)
	Logic function	Direct AND
		OR OR
		Window
		Window Hysteresis
	Timer function	Deactivated
	Timer function	On delay
		Off delay
		ON and OFF delay
		Impulse (one shot)
	Inverter	Yes
IQ-Link interface	Protocol version	IO-Link V1.1
	Communication interface detail	COM3 (230.4 kBaud)
	Cycle time	2.0 ms
	Process data length	16 bytes
	Process data structure	Bit 0 - Bit 1 = QL1 - QL2
	(5 analog outputs out of 16 modules)	Bit 2 - Bit 33 = Module 1 Qint.1 - Module 16 Qint.2
		Bit 34 - Bit 47 = Reserved
		Bit 48 - Bit 63 = Analog output 5
		Bit 64 - Bit 79 = Analog output 4
		Bit 80 - Bit 95 = Analog output 3
		Bit 96 - Bit 111 = Analog output 2
		Bit 112 - Bit 127 = Analog output 1
	Process data structure	Bit 0 - Bit 1 = QL1 - QL2
	(7 analog outputs out of 7 modules)	Bit 2 - Bit 15 = Module 1 Qint.1 - Module 7 Qint.2
		Bit 16 - Bit 31 = Analog output 7
		Bit 32 - Bit 47 = Analog output 6
		Bit 48 - Bit 63 = Analog output 5
		Bit 64 - Bit 79 = Analog output 4
		Bit 80 - Bit 95 = Analog output 3
		Bit 96 - Bit 111 = Analog output 2
	Vendor ID	Bit 112 - Bit 127 = Analog output 1 26
		26 0x80022E
	Device ID HEX Device ID DEC	0x80022E 8389166
total and an about him		8389166 V1
Internal system bus	Protocol version Maximum number of connected modules	16
Ambient data	Electromagnetic compatibility (EMC)	Ib EN 60947-5-2
Ampient data	Shock load	EN 60947-5-2 500m/s² (50G)
	Ambient operating temperature	-25 +55°C ⁶
	Ambient storage temperature	-25 +55°C * -40 +70°C
	² A = VS connections reverse-polarity protected.	40 170 (
	B = inputs and output reverse-polarity protected.	

² A = 1'S connections revense-polarity protected.
3 E - inputs and output revense-polarity protected.
4 C = interference suppression.
3 With correctly attached system bus module.
4 Depending on number of connected sensor devices.
1-3 units. Ambient temperature = 25.5°C;C max. output current 100mA.
4 units. Ambient temperature = 25.5°C;C max. output current 50mA.
9-16 units. Ambient temperature = 25.5°C;C max. output current 20mA.
9-16 units. Ambient temperature = 25.45°C;C max. output current 20mA.

Anschlussschema

Cd-447

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