

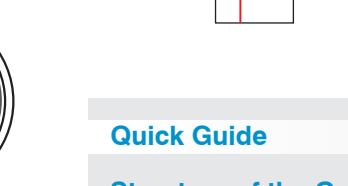
Inputs and Outputs

Signal Designation	Sensor Pin	Comments	PC2300-x/SUB-D cable ¹
			15-pin sub-D
V_+	1	Supply voltage (11...30 VDC)	1
GND	2	System ground for supply and reference ground for RS422 level	9
+Laser on/off	3	Optocoupler input, electrically isolated Laser off: $V_{IN} \leq 0.8$ V (Low) Laser on: $2.8 \leq V_{IN} \leq 30$ V (High)	2
-Laser on/off	4		10
Sync-in/out ²	5	Synchronous or trigger signals, symmetrical, RS422 level, terminating resistor 120 ohm switchable, input or output can be selected depending on synchronization mode	3
/Sync-in/out ²	6		11
RxD-RS422	7	Serial RS422 input, symmetrical, internally terminated with 120 ohm	4
/RxD-RS422	8		12
TxD-RS422	9	Serial RS422 output, symmetrical	5
/TxD-RS422	10		13
Tx - Ethernet	11	Ethernet output, electrically isolated	6
/Tx - Ethernet	12		14
Rx - Ethernet	13	Ethernet input, electrically isolated	7
/Rx - Ethernet	14		15
Shield		Housing no galvanic connection to GND	Housing

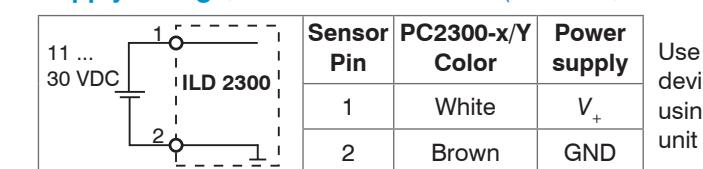
1) Other cables are optionally available.
2) In trigger mode, the input is used for triggering.

Connector: ODU MINI-SNAP, 14 poles, B series, size 2, coding F, IP68.

Round sensor connector, view on solder pin side cable connector

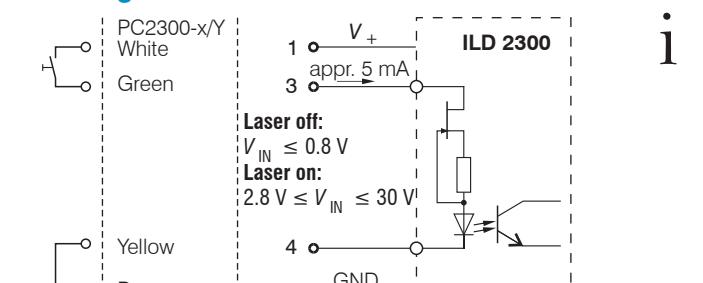


Supply Voltage, Nominal value: 24 V DC (11 ... 30 V, max. 150 mA)



Use the supply voltage only for measuring devices. MICRO-EPSILON recommends using an optional available power supply unit PS2020 for the sensor.

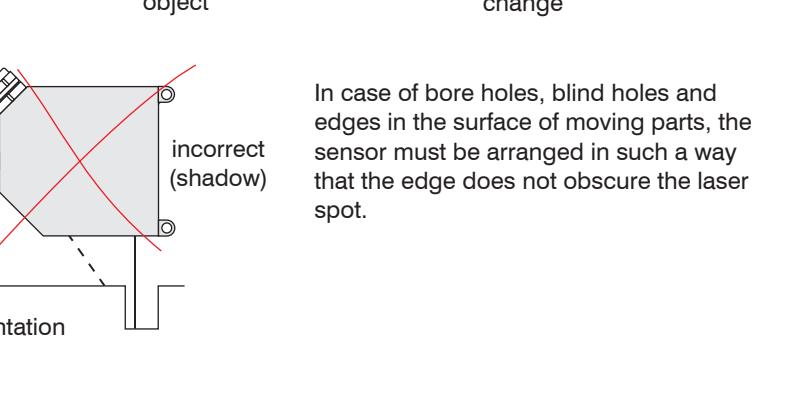
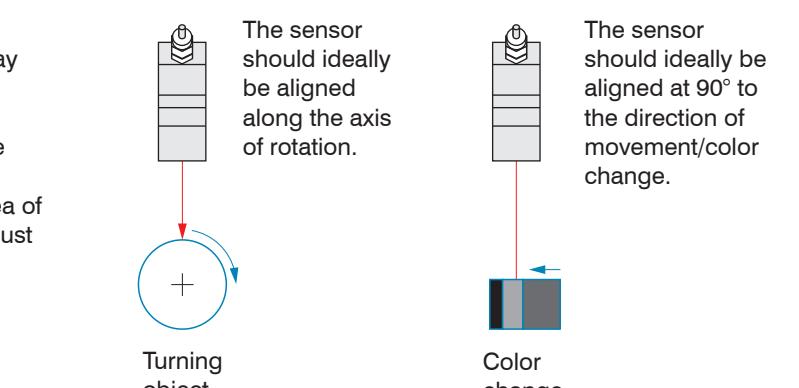
Turning on Laser



The laser remains off as long as pin 3 is not electrically connected to V_+ and pin 4 to GND.



Optimizing the Measurement Accuracy



In case of bore holes, blind holes and edges in the surface of moving parts, the sensor must be arranged in such a way that the edge does not obscure the laser spot.

The sensor should ideally be aligned at 90° to the direction of movement/color change.

The sensor should ideally be aligned along the axis of rotation.

In order to suppress stray reflections, a corresponding clearance around the reception area of the sensor must be kept free.

Color change

Indentation

Turning object

Alignment to a wall

Indication

Color change

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