

## /// ODSL 9



The ODSL 9 optical distance sensors set new standards in precision and ease of use. The sensor enables accurate measurements even under difficult conditions, e. g., with glossy objects. The integrated display shows the measurement values and facilitates easy adjustment of the sensor. The distance sensors reveal their enormous potential for precision when used in combination with digital interfaces.



### ODSL 9

This series measures very precisely even over longer distances making it suitable for the positioning of actuators and robots.

#### Benefits:

- High accuracy up to 650 mm
- Reflection-independent distance measurement
- Display for measured value display and configuration
- Analog current/voltage output
- Switching outputs adjustable with millimeter accuracy
- IO-Link, serial interface RS 232/485

Part no.	Part description	Measurement range	Light source Safety class	Light spot dimensions	Analog outputs	Digital switching outputs	Resolution	Measurement time	Description
50113583	ODSL 9/C6-650-S12	50 ... 650 mm	Laser, red, 2	1 mm	1x, current	1x	0.1 ... 0.5 mm	2 ms	Connector, M12, plastic, 5-pin
50120000	ODSL 9/D36-650-S12	50 ... 650 mm	Laser, red, 2	1 mm		1x	0.1 ... 0.5 mm	2 ms	Type of interface: RS 485, connector, M12, plastic, 5-pin
50120825	ODSL 9/L-650-S12	50 ... 650 mm	Laser, red, 2	1 mm			0.1 ... 0.5 mm	2 ms	Type of interface: IO-Link, connector, M12, plastic, 5-pin
50114627	ODSL 9/V6-650-S12	50 ... 650 mm	Laser, red, 2	1 mm	1x, voltage	1x	0.1 ... 0.5 mm	2 ms	Connector, M12, plastic, 5-pin
50111157	ODSL 9/C6-450-S12	50 ... 450 mm	Laser, red, 2	1 mm	1x, current	1x	0.1 mm	2 ms	Connector, M12, plastic, 5-pin
50111161	ODSL 9/C66-450-S12	50 ... 450 mm	Laser, red, 2	1 mm	1x, current	2x	0.1 mm	2 ms	Connector, M12, plastic, 5-pin

Part no.	Part description	Measurement range	Light source Safety class	Light spot dimensions	Analog outputs	Digital switching outputs	Resolution	Measurement time	Description
50111159	ODSL 9/D26-450-S12	50 ... 450 mm	Laser, red, 2	1 mm		1x	0.1 mm	2 ms	Type of interface: RS 232, connector, M12, plastic, 5-pin
50111160	ODSL 9/D36-450-S12	50 ... 450 mm	Laser, red, 2	1 mm		1x	0.1 mm	2 ms	Type of interface: RS 485, connector, M12, plastic, 5-pin
50111166	ODSL 9/L-450-S12	50 ... 450 mm	Laser, red, 2	1 mm			0.1 mm	2 ms	Type of interface: IO-Link, connector, M12, plastic, 5-pin
50111158	ODSL 9/V6-450-S12	50 ... 450 mm	Laser, red, 2	1 mm	1x, voltage	1x	0.1 mm	2 ms	Connector, M12, plastic, 5-pin
50111162	ODSL 9/V66-450-S12	50 ... 450 mm	Laser, red, 2	1 mm	1x, voltage	2x	0.1 mm	2 ms	Connector, M12, plastic, 5-pin
50115029	ODSL 9/C6.C1-450-S12	50 ... 450 mm	Laser, red, 1	1 mm	1x, current	1x	0.1 mm	4 ms	Connector, M12, plastic, 5-pin
50115030	ODSL 9/V6.C1-450-S12	50 ... 450 mm	Laser, red, 1	1 mm	1x, voltage	1x	0.1 mm	4 ms	Connector, M12, plastic, 5-pin
50117334	ODSL 9/C6-200-S12	50 ... 200 mm	Laser, red, 2	1 mm	1x, current	1x	0.1 mm	2 ms	Connector, M12, plastic, 5-pin
50113332	ODSL 9/V6-200-S12	50 ... 200 mm	Laser, red, 2	1 mm	1x, voltage	1x	0.1 mm	2 ms	Connector, M12, plastic, 5-pin

## ODSL 9 high resolution

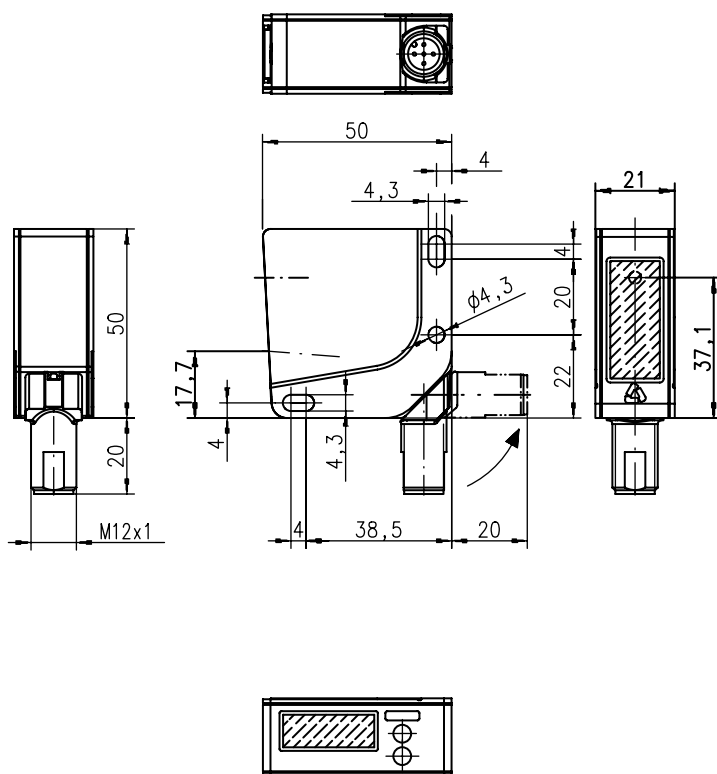
With a resolution of 0.01 mm, the sensors are designed for the contour measurement of small objects and quality control on assembly lines.

### Benefits:

- Maximum accuracy in compact design
- Resolution 0.01 mm with a measurement range of 50 mm
- Reflection-independent distance measurement
- Display for measured value display and configuration
- Analog voltage/current output, switching outputs
- IO-Link, serial interface RS 232

Part no.	Part description	Measurement range	Light source Safety class	Light spot dimensions	Analog outputs	Digital switching outputs	Resolution	Measurement time	Description
50111167	ODSL 9/C6-100-S12	50 ... 100 mm	Laser, red, 2	1 mm	1x, current	1x	0.01 mm	2 ms	Connector, M12, plastic, 5-pin
50111171	ODSL 9/C66-100-S12	50 ... 100 mm	Laser, red, 2	1 mm	1x, current	2x	0.01 mm	2 ms	Connector, M12, plastic, 5-pin
50111169	ODSL 9/D26-100-S12	50 ... 100 mm	Laser, red, 2	1 mm		1x	0.01 mm	2 ms	Type of interface: RS 232, connector, M12, plastic, 5-pin
50111170	ODSL 9/D36-100-S12	50 ... 100 mm	Laser, red, 2	1 mm		1x	0.01 mm	2 ms	Type of interface: RS 485, connector, M12, plastic, 5-pin
50111174	ODSL 9/L-100-S12	50 ... 100 mm	Laser, red, 2	1 mm			0.01 mm	2 ms	Type of interface: IO-Link, connector, M12, plastic, 5-pin
50111168	ODSL 9/V6-100-S12	50 ... 100 mm	Laser, red, 2	1 mm	1x, voltage	1x	0.01 mm	2 ms	Connector, M12, plastic, 5-pin
50111172	ODSL 9/V66-100-S12	50 ... 100 mm	Laser, red, 2	1 mm	1x, voltage	2x	0.01 mm	2 ms	Connector, M12, plastic, 5-pin

## Dimensioned drawings: ODSL 9



ODSL 9 optical distance sensor