

## SDLC-10-A Sensor de Distância LED CAPI IR

The SDLC-10-A is an optoelectronic distance sensor for a wide range of industrial applications.

It works contact-free with harmless LED-lighting and performs with a new unique sensing technology based on time-of-flight principle and sophisticated signal processing algorithms.

The flexible interface system with analog and digital outputs as well as serial configuration via Modbus RTU makes the SDLC-10-A easy to install and reduces the time to get a working application.

The SDLC-10-A is the basic type of Astechs new distance sensor series. Its extremely simple and robust design enables the SDLC-10-A to realize distance sensing and presence detection applications with an unbeaten Price-Performance ratio.



### Key Features

- Reflector-less distance sensing on various surfaces
- Safe operation even in public places by LED-lighting (No laser)
- Unbeaten Price-Performance-Ratio
- One connection cable for supply voltage, serial data interface, switching and analogue output
- Customized parameterization via PC
- Programmable analogue and digital interfaces
- Robust, compact housing, easy to install,
- Protection standard IP 67

### Applications

- Distance sensing on natural solid surfaces up to 10 m
- Object presence detection
- Fill level measurement
- Area intrusion surveillance
- Hot metal detection up to 1200 °C
- Storage box allocation monitoring
- Stack height observation
- Traffic surveillance
- Vehicle dimension monitoring

### Options and accessory

- Mounting bracket
- Connection cables
- PC-Software for parameterization

## Technical Data

Measuring range <sup>1)</sup>	
Onto natural target (20 % reflection)	0.1 m ... 10 m
Onto target board (90% reflection)	0.1 m ... 40 m
Measuring uncertainty <sup>2)</sup>	± 50 mm
Reproducibility <sup>1)</sup>	± 5 mm
Resolution	1 mm
Measuring frequency	2.2 Hz ... 140 Hz
Lighting	Infrared-LED, 850 nm
Lighting classification	“Exempt class” according to IEC 62471:2006
Lighting beam divergence	3°
Receiver beam divergence	6°
Operating temperature	-25 °C ... +75 °C
Supply voltage	10 ... 30 V DC (protected against voltage reversal)
Power consumption	< 3 W
Serial data interface	RS485, MODBUS RTU, 19.400 baud
Digital output	2x PNP, NO/NC selectable
Analogue output	0/4 mA ... 20 mA current output, Adjustable range limits, 10-bit
Status indicator	2x RGB-LED on top cover
Connector	8 pin, M12-standard, male
Housing material	Aluminum, powder-coated
Dimensions (L x W x H)	131 mm x 64 mm x 50 mm, incl. connector
Weight	280 g
Mounting	2 holes for M4 screws, 105 mm x 56 mm
Protection class	IP 67 (waterproof and dust protected)
EMC	IEC 61326-1

<sup>1)</sup> Dependent on target reflectance, surface structure, ambient light and atmospheric conditions

<sup>2)</sup> Single measurement, statistical spread 95%

