

# Datasheet

- Reliable measurements on dark surfaces – even under solar radiation during outdoor operations
- Serial interfaces (RS-232,-422,-485,SSI)
- Analog output 0/4 ... 20 mA
- Digital inputs and outputs (standard)
- Further functions can be configured by the customers
- Optional interfaces on request:  
 PROFIBUS (extern),  
 PROFINET, EtherNet/IP, EtherCAT



## Mechanical Data

Type	DAE-10-050	
Dimensions (L x W x H)	140 x 78 x 48 mm	
Laser	visible, red (Laser Class 2, <1mW)	
Laser dot		
at 10 m	7 x 3 mm	
at 50 m	28 x 13 mm	
at 100 m	55 x 30 mm	
Material	aluminium	
Housing		
Weight	350 g	
Measuring range		
on reflecting foil	~40 ... 50 m	
on Natural surfaces	0.05 ...~50 m	
Accuracy	±1 mm [at ±2 σ]	±0.5 mm [at ±1 σ]
Repeatability	±0.3 mm [at ±2 σ]	±0.15 mm [at ±1 σ]
Operating temperature	-40°C ... +60°C	
IP rating	IP65	

## Electrical Data

Type	DAE-10-050	
Power supply	12 ... 30 VDC	
Power consumption	0.5 A [at 24 VDC]	
Max. measuring rate	100 Hz	
Max. output rate	100 Hz	
Analog output, programmable	0/4...20 mA	
Analog output Error	±0.1 %	
Connection	internal screws terminal	
Interfaces		
Standard	Analog output, programmable, 0/4...20 mA, 1 digital input, programmable 2 digital output, programmable 1 digital error display (NPN, PNP, Push-Pull) Serial interfaces: RS-232, RS-422 / RS-485, SSI 1 USB, only for configuration	
Optional	PROFIBUS (external), PROFINET, EtherNet/IP, EtherCAT	

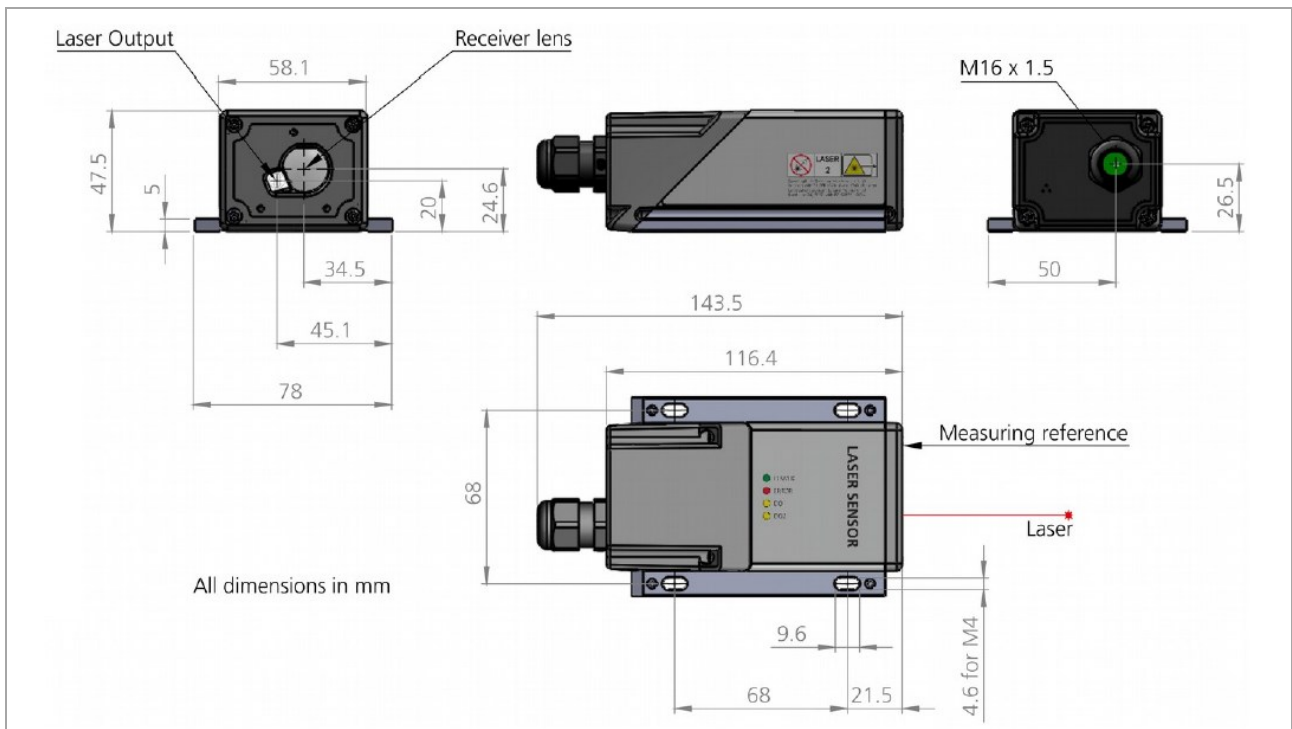
DAE-10-050\_DB\_2023-04-24\_EN

# Datasheet

## Functions

- Automatic mode for stand-alone operation
- Direct connection to an external display
- User distance offset / gain, programmable
- Filter functions, programmable
- Adjustable measuring behaviour
- Programmable device ID
- Trigger functionality

## Dimensions



## Ordering example

**Type**                    **DAE - 10 - 050 - PROFINET**

### Accuracy

**10**     = ±1 mm [at ±2 σ]; ±0,5 mm [at ±1 σ]

### Measuring range

**050**     = ~40 ... 50 m on reflecting foil;  
              0,05 ... ~50 m on natural surfaces

### Interface (optional)

PROFIBUS (external)

**PROFINET**  
EtherNet/IP  
EtherCAT

**DIMETIX**  
Manufacturer: LASER DISTANCE SENSORS

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.