Datasheet

- Reliable measurements on dark surfaces – even under solar radiation during outdoor operations
- Accuracy ±3 mm or ±1.5 mm
- Measuring range 0.05...~100 m, ~0.5...500 m respectively
- Max. measuring rate 50 Hz
- Serial interfaces
- Digital inputs and outputs (standard)
- Further functions can be configured by the customer
- Optional interfaces on request:
  PROFIBUS (external),
  PROFINET, EtherNet/IP, EtherCAT

Mechanical Data

Type	DEH-30-500	
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		
Housing	aluminium	
Weight	350 g	
Measuring range		
on natural surfaces	0.05...~100 m	
on reflecting foil	~0.5...500 m	
Accuracy	±3 mm [at ±2 σ]	±1.5 mm [at ±1 σ]
Repeatability	±0.7 mm [at ±2 σ]	±0.35 mm [at ±1 σ]
Operating temperature	-10°C … +60°C	
IP rating	IP65	

Electrical Data

Type	DEH-30-500
Power supply	12 … 30 VDC
Power consumption	0.15 A [at 24 VDC]
Max. measuring rate	100 Hz
Max. output rate	100 Hz
Connection	internal screw terminals
Interfaces	
Standard	1 digital input, programmable Serial interfaces: RS-232; RS422 / RS485; SSI 1 digital output / error display (NPN, PNP, Push-Pull) 1 USB, only for configuration
Optional	PROFIBUS (external), PROFINET, EtherNet/IP, EtherCAT

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DEH-30-500_DB_2023-04-24_EN

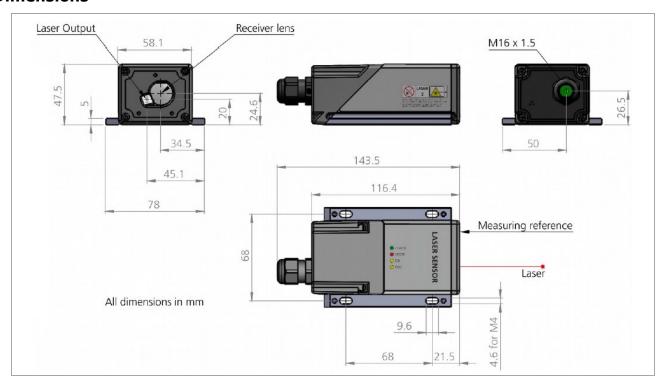**Measure** | Indicate | Control | Sensors | Mechanics | Accessory
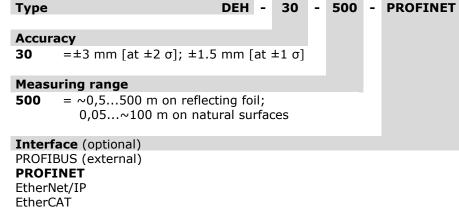
Datasheet

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

All dimensions in mm

Ordering example

Type		DEH	-	30	-	500	-	PROFINET

Accuracy
30 = ±3 mm [at ±2 σ]; ±1.5 mm [at ±1 σ]

Measuring range
500 = ~0,5...500 m on reflecting foil;
0,05...~100 m on natural surfaces

Interface (optional)
PROFIBUS (external)
PROFINET
EtherNet/IP
EtherCAT

Manufacturer: DIMETIX 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.

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Measure | Indicate | Control | Sensors | Mechanics | Accessory