

Datasheet

- Reliable measurements on dark surfaces – even under solar radiation during outdoor operations
- Serial interfaces
- Analog output 0/4 ... 20 mA
- 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	WDL2-A-10-20	
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 reflecting foil	n/a	
on Natural surfaces	0,15 ...~20 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	-10°C ... +50°C	
IP rating	IP65	

Electrical Data

Type	WDL2-A-10-20	
Power supply	12 ... 30 VDC	
Power consumption	0.15 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	

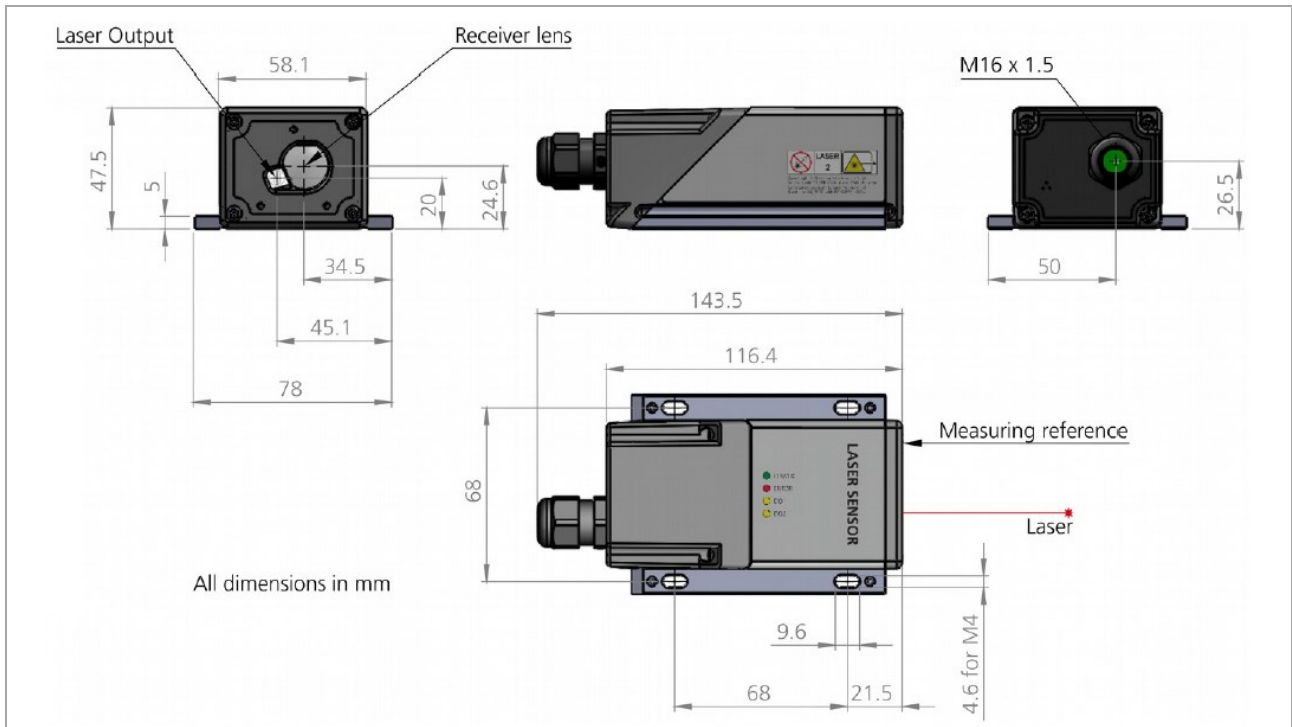
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Functions

- 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	WDL2-A - 10 - 20 - PROFINET
Accuracy	10 = ±1 mm [bei ±2 σ]; ±0,5 mm [bei ±1 σ]
Measuring range	20 = n/a on reflecting foil; 0,15 ...~20 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.