

# Laser Distance Sensor

Series	AWLS-5028-AA	AWLS-5028-NA
Picture		

## General data:

Measurement method	Triangulation	Triangulation
Light source	Laser	Laser
Wavelength	655 nm	655 nm
Laser class	2	2
Receiving element	CMOS image sensor	CMOS image sensor
Connection type	Cable, 5-core, 2 m	Cable, 5-core, 2 m
Interface	None	None
Analog output current	Yes	Yes
Analog output voltage	Yes	Yes
Teach-in	Button	Button
Beam type	Point	Point
Power on indication	LED green	LED green
Switching status indicator	LED orange	LED orange
Display	4-digit LED display, red	4-digit LED display, red
Electronic	Integrated	Integrated

## Measurement data:

Measuring range	120 - 280 mm	120 - 280 mm
Linearity error	0.56 mm	0.56 mm
Repeat accuracy	200 $\mu$ m	200 $\mu$ m
Measuring frequency in Hz (max.)	333	333

## Outputs:

Output circuit	Analog	Analog
Voltage output	0 - 5 V	0 - 5 V
Current output	4 - 20 mA	4 - 20 mA
Transistor output	PNP	NPN

## Power supply:

Power supply V DC	12 - 24 V DC	12 - 24 V DC
Power consumption max.	60 mA	60 mA
Short circuit protection	Yes	Yes

## Physical characteristics:

Housing material	Aluminium	Aluminium
Front (optics)	Acryl	Acryl
Ingress protection	IP67	IP67
Dimensions (W x H x D)	21 x 44 x 25 mm	21 x 44 x 25 mm
Weight	85 g	85 g
Construction type	Rectangular	Rectangular

## Environmental:

Operating temperature range	-10 - +45 °C	-10 - +45 °C
Storage temperature range	-20 - +60 °C	-20 - +60 °C
Humidity	35 - 85 %, non condensing	35 - 85 %, non condensing
Ambient light immunity	< 3 klx	< 3 klx