

XLR30 Laser Distance Measuring Module. Precise. Robust. Reflectorless.



***Measures
dis-tances with
milli-metre
accuracy.***

***Precisely de ines
positions.***

***Registers move-
ments.***

Measuring system:

The XLR30 provides an optoelectronic distance measuring module for industrial applications.

Non-contact measure by principle of comparative phase shift measurement.

Easy to install due to visible laser.

High measuring rate of 50 Hz.

RS 232 or RS 422, data interface.

Programmable digital switching output.

Programmable analog output from 4 mA to 20 mA.

External trigger input.

Features:

Laser class 2 for safe operation.

Non-reflector measurement.

Measures on all types of surface with millimetre accuracy.

Allows field bus integration (external).

Dust- and waterproof protection (IP 65).

Low power consumption.

Compact design.

Easy to customise to application by using the parameter settings.

Application:

Log gap sensing.

Monitoring of delivery systems and crane equipment.

Distance measurement.

Position measurement.

Fill-level measurement.

Security applications.

Position monitoring for moving objects.

Monitoring of hoisting equipment / lift measuring.

Elevator positioning.

Parts detection.

DISTRIBUTED BY

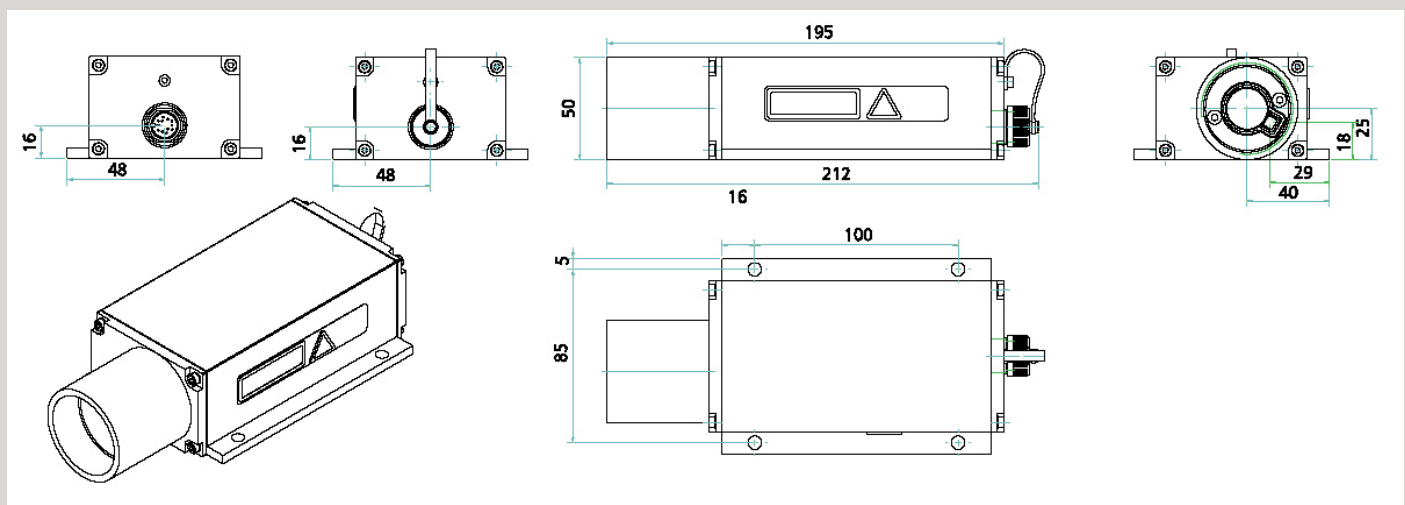
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XLR30 Laser Distance Measuring Modul.

Measuring range*1:	Distances greater than 100 m (328ft) are possible depending on the surface reflectance, 0.2 to 50 m (0.7ft to 164ft) on natural surface
Measuring accuracy*2	$\pm 3 \text{ mm}$ (+15 °C to +30 °C), $\pm 5 \text{ mm}$ (-10 °C to +50 °C) $\pm 0.12''$ (+59 °F to +86 °F), $\pm 0.2''$ mm (+14 °F to +122 °F)
Measuring resolution:	0.1 mm (0.0039")
Measuring time:	0.16 to 6 s, 20 ms (50 Hz) on white surface
Repeatability:	$\leq 0.5 \text{ mm}$ (0.02")
Laser divergence:	0.6 mrad
Laser classification:	$\leq 1 \text{ mW}$. Laser Class 3B according to EN 60825-1:2014 and 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
Wavelength:	650 nm (visible)
Supply voltage:	DC 10 ... 30 V
Connection:	12-pin-connector M18 (BINDER series 423)
Data interface:	RS 232 or RS 422, 2,4 / 4,8 / 9,6 / 19,2 / 38,4 kBaud, 8N1, no handshaking, ASCII protocol configuration of parameters to be measured (e. g. scale, time to measure), configuration of analog and digital output, trigger input and turn-on behavior, output of distance readings or error messages, query for internal module temperature.
Operating modes: Switching output:	Distance tracking, single measurement, external triggering HIGH = UV, - 2 V, LOW < 2 V, with 0.5 A load capacity, threshold and hysteresis changeable, invertable
Analog output:	4 mA to 20 mA, distance boundary adjustable, defect conditions adjustable, load resistance $\leq 500 \Omega$
Trigger input:	Trigger edge and trigger delay adjustable, trigger pulse max 24 V
Operating temperature:	-10 °C to +50 °C (+14 °F to +122 °F)
Storage temperature:	-20 °C to +70 °C (-4 °F to +158 °F)
Phys. dimensions (L x W x H):	(212 mm x 96 mm x 50 mm) (8.3" x 3.8" x 2.0")
Internal protection class:	IP 65
EMV:	EN 61000-6-2, EN 55011

*1 dependent on target reflectivity, stray light influences and atmospheric conditions

*2 statistical spread 95%



We reserve the right to introduce modifications without prior notice.



LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

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