

3D Sensor

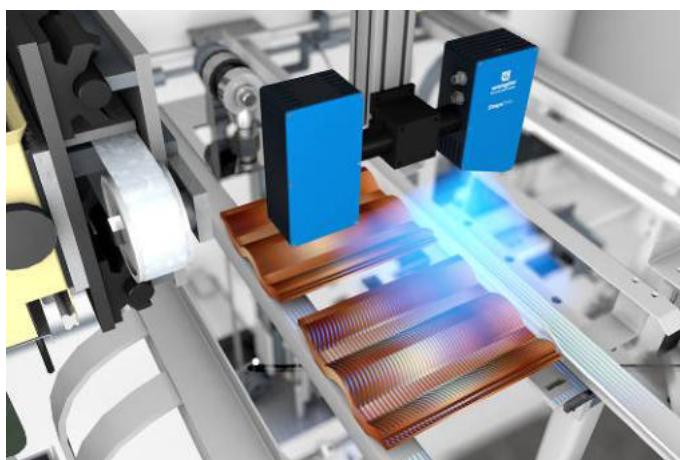
MLBS201

Part Number



- **10 Gbit/s interface for high speed data transfer**
- **12 MP resolution**
- **Large measuring volumes (up to 1300 × 920 × 800 mm)**
- **Short recording times of up to 0.44 s**

ShapeDrive MLBS 3D Sensors are ideally suited for applications with large measuring volumes. The six models in this series are available in two performance classes with camera resolutions of 5 and 12 megapixels. Thanks to the rugged IP67 housing, all ShapeDrive sensors are ideally suited for use in industrial environments. With its 10 Gigabit Ethernet interface and three measuring ranges in each performance class, ShapeDrive is also distinguished by great diversity and high speed.



Technical Data

Optical Data

Working range Z	590...890 mm
Measuring range Z	300 mm
Measuring range X	500 mm
Measuring range Y	360 mm
Resolution Z	40 μ m
Resolution X/Y	131 μ m
Camera Resolution	4096 × 3000 Pixel
Light Source	LED (blue)
Wavelength	460 nm
Service Life (T = +25 °C)	20000 h
Risk Group (EN 62471)	2
Max. Ambient Light	5000 Lux

Electrical Data

Supply Voltage	18...30 V DC
Max. Current Consumption (Ub = 24 V)	5 A
Recording duration	0,44...2,15 s
Temperature Range	0...35 °C
Storage temperature	-5...70 °C
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Interface	Ethernet TCP/IP
Baud Rate	100 Mbit/s
Baud Rate (10 GbE)	10 Gbit/s
Protection Class	III

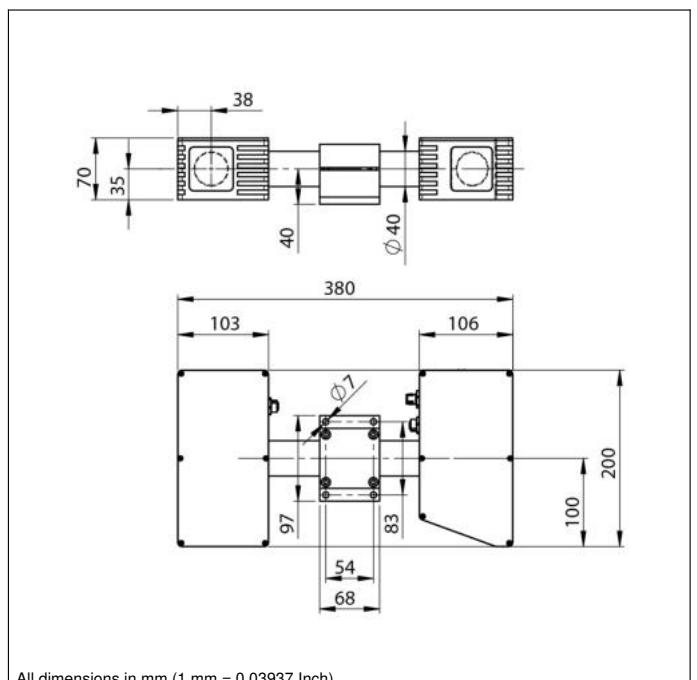
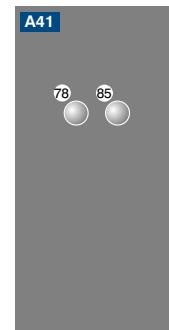
Mechanical Data

Housing Material	Aluminium; Plastic
Degree of Protection	IP67
Connection	M12 × 1; 12-pin
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.
Optic Cover	Plastic
Weight	4200 g
Web server	yes
Connection Diagram No.	238 1022
Control Panel No.	A41
Suitable Connection Equipment No.	50 87

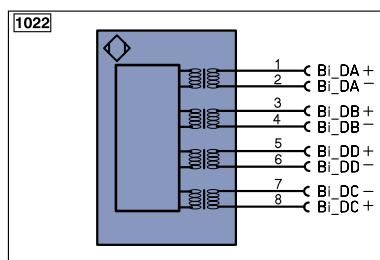
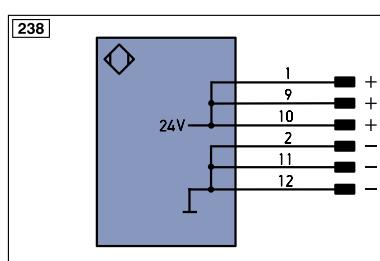
Complementary Products

Cooling Unit ZLBK001

Cooling Unit ZLBK002


Ctrl. Panel


78 = Module status
85 = Link/Act LED


Legend

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ü	Test Input inverted
W	Trigger Input
W-	Ground for the Trigger Input
O	Analog Output
O-	Ground for the Analog Output
BZ	Block Discharge
Awv	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
SY-	Ground for the Synchronization
E+	Receiver-Line
S+	Emitter-Line
±	Grounding
SnR	Switching Distance Reduction
RxD	Interface Receive Path
TxD	Interface Send Path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable
IO-Link	IO-Link
PoE	Power over Ethernet
IN	Safety Input
OSD	Safety Output
Signal	Signal Output
Bi_DA	Ethernet Gigabit bidirect. data line (A-D)
EN0542	Encoder 0-pulse 0-0 (TTL)

EN0542	Encoder A/Ā (TTL)
EN10542	Encoder B/Ā (TTL)
ENa	Encoder A
ENb	Encoder B
AMIN	Digital output MIN
AMAX	Digital output MAX
AOK	Digital output OK
SY IN	Synchronization IN
SY OUT	Synchronization OUT
OLT	Brightness output
M	Maintenance
rsv	reserved
Wire Colors according to IEC 60757	
BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

Measuring Volume
