# MLBS202

Part Number



- 10 Gbit/s interface for high speed data transfer
- 12 MP resolution
- Large measuring volumes (up to 1300 x 920 x 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.

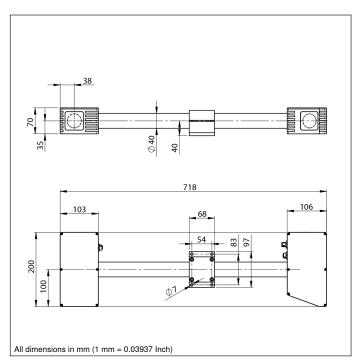
#### **Technical Data**

Optical Data				
Working range Z	15502050 mm			
Measuring range Z	ng range Z 500 mm			
Measuring range X	750 mm			
Measuring range Y	540 mm			
Resolution Z	50 μm			
Resolution X/Y	224 μm			
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	1830 V DC			
Max. Current Consumption (Ub = 24 V)	5 A			
Recording duration	0,442,15 s			
Temperature Range	035 °C			
Storage temperature	-570 °C			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Interface	Ethernet TCP/IP			
Baud Rate				
Baud Rate (10 GbE)	e (10 GbE) 10 Gbit/s			
Protection Class	III			
Mechanical Data				
Housing Material	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	4500 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

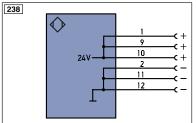


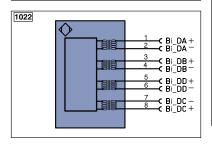


## Ctrl. Panel



78 = Module status 85 = Link/Act LED





eger	10		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
V		(NO)	0	Analog Output	Аок	Digital output OK	
V		(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
Е	Input (analog or digital)		BZ	Block Discharge	SY OUT		
Т	Teach Input		AMV	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path		SY	Synchronization	Wire Co	Wire Colors according to IEC 60757	
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black	
RDY	Ready		E+	Receiver-Line	BN	Brown	
GND	Ground		S+	Emitter-Line	RD	Red	
CL	Clock		±	Grounding	OG	Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
0	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output		Mag	Magnet activation	WH	White	
BI_D+/-	- Ethernet Gigabit bidirect. data	line (A-D)	RES	Input confirmation		Pink	
ENors42	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

#### **Measuring Volume**











