MLBS102

Part Number



- 10 Gbit/s interface for high speed data transfer
- 5 MP resolution
- Large measuring volumes (up to 1300 x 1000 x 800 mm)
- Short recording times of up to 0.35 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.

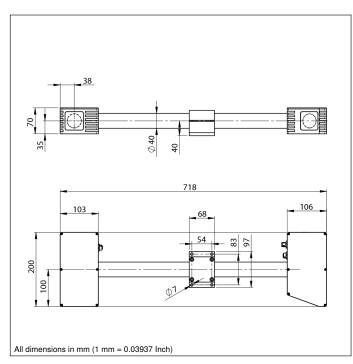
Technical Data

Optical Data					
Working range Z	range Z 15502050 mm				
Measuring range Z	500 mm				
Measuring range X	750 mm				
Measuring range Y	560 mm				
Resolution Z	50 <i>μ</i> m				
Resolution X/Y	406 μm				
Camera Resolution	2448 × 2048 Pixel				
Light Source	LED (blue)				
Wavelength	460 nm				
Service Life (T = +25 °C)	20000 h				
Risk Group (EN 62471)	2				
ax. Ambient Light 5000 Lux					
Electrical Data					
Supply Voltage	1830 V DC				
Max. Current Consumption (Ub = 24 V)	5 A				
Recording duration	0,352,15 s				
Temperature Range	035 °C				
Storage temperature	-570 °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	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

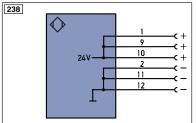


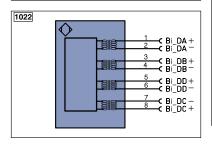


Ctrl. Panel



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











