## **Shape**Drive

## MLAS205

Part Number

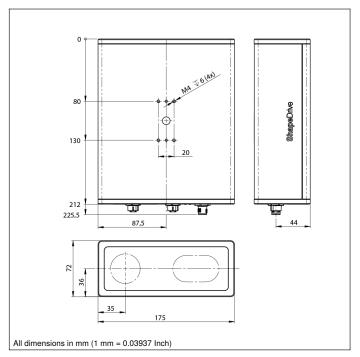


- 10 Gbit/s interface for high speed data transfer
- 12 MP resolution
- Short recording times of up to 0.188 s

ShapeDrive MLAS 3D Sensors are distinguished by high precision for minimal measuring volumes. The ten models in this series are available in two performance classes with camera resolutions of 5 and 12 megapixels. All ShapeDrive sensors are ideally suited for use in industrial environments thanks to the rugged IP65 housing. With its 10 Gigabit Ethernet interface and five measuring ranges in each performance class, ShapeDrive is also distinguished by great diversity and high speed.

Technical Data			
Optical Data			
Working range Z	420720 mm		
Measuring range Z	300 mm		
Measuring range X	360 mm		
Measuring range Y	240 mm		
Resolution Z	20 <i>μ</i> m		
Resolution X/Y	88 <i>µ</i> 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	1830 V DC		
Max. Current Consumption (Ub = 24 V)	3,5 A		
Recording duration	0,1880,61 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	Class		
Mechanical Data			
Housing Material	Aluminium; Plastic		
Degree of Protection	IP65		
Connection	M12 × 1; 12-pin		
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.		
Optic Cover	Plastic		
Weight	2500 g		
Web server	yes		
Connection Diagram No.	238 1022		
Control Panel No.	A41		
Suitable Connection Equipment No.	50 87		
Suitable Mounting Technology No.	343		

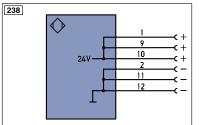


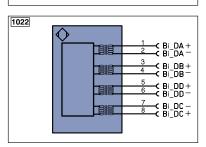


Ctrl. Panel



78 = Module status 85 = Link/Act LED





.eger	10	PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	nc	not connected	ENB	Encoder B
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX
Α	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Awv	Valve Output	М	Maintenance
Т	Teach Input	а	Valve Control Output +	rsv	reserved
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization	Wire Colors according to	
RxD	Interface Receive Path	E+	Receiver-Line	DIN IEC 757	
TxD	Interface Send Path	S+	Emitter-Line	BK	Black
RDY	Ready	±	Grounding	BN	Brown
GND	Ground	SnR	Switching Distance Reduction	RD	Red
CL	Clock	Rx+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Tx+/-	Ethernet Send Path	YE	Yellow
0	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue
IN	Safety Input	Mag	Magnet activation	VT	Violet
OSSD	Safety Output	RES	Input confirmation	GY	Grey
Signal	Signal Output	EDM	Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data line (A-D)	ENAR542	Encoder A/Ā (TTL)	PK	Pink
	2 Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow

## **Measuring Volume**

