## **Shape**Drive

M12 × 1; 8-pin, X-cod.

238 1022

A41

50 87

343

Plastic

2500 g

yes

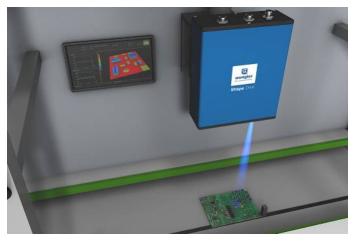
## MLAS101

Part Number



- 10 Gbit/s interface for high speed data transfer
- 5 MP resolution
- Short recording times of up to 0.35 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 160...170 mm Measuring range Z 10 mm Measuring range X 30 mm Measuring range Y 25 mm Resolution Z 4 μm Resolution X/Y 18 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 Max. Ambient Light 5000 Lux **Electrical Data** 18...30 V DC Supply Voltage Max. Current Consumption (Ub = 24 V) 3,5 A Recording duration 0,35...2,15 sTemperature Range 0...35 °C Storage temperature -5...70 °C **Short Circuit Protection** yes Reverse Polarity Protection Interface Ethernet TCP/IP **Baud Rate** 100 Mbit/s Baud Rate (10 GbE) 10 Gbit/s **Protection Class Mechanical Data** Housing Material Aluminium; Plastic Degree of Protection IP65 M12 × 1; 12-pin Connection

Type of Connection Ethernet

Connection Diagram No.
Control Panel No.

Suitable Connection Equipment No.

Suitable Mounting Technology No.

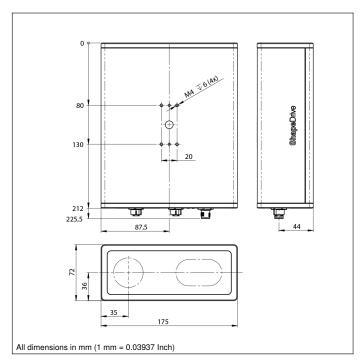
Optic Cover

Web server

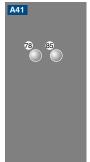
Weight

<b>2D</b>	/3D	Ser	ารด	rs

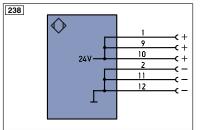


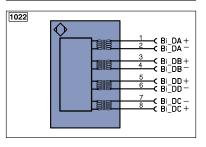


Ctrl. Panel



78 = Module status 85 = Link/Act LED





Legend		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	/ire 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			La	Emitted Light disengageable	GY	Grey	
Signal	nal 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**











