238 1022

A41

50 87

343

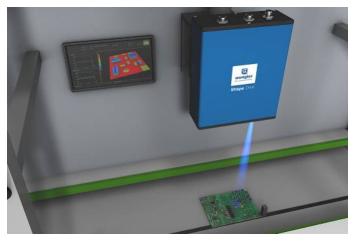
MLAS202

Part Number



- 10 Gbit/s interface for high speed data transfer
- 12 MP resolution
- Short recording times of up to 0.44 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.



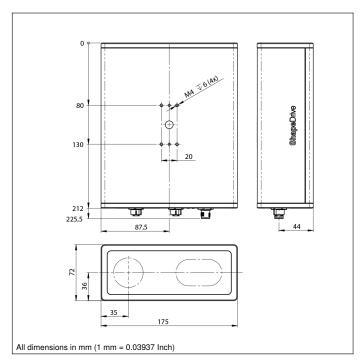
Technical Data Optical Data Working range Z 255...295 mm Measuring range Z 40 mm Measuring range X 60 mm Measuring range Y 40 mm Resolution Z 5 μm Resolution X/Y 16 μm Camera Resolution 4096 × 3000 Pixel Light Source LED (blue) Wavelength 460 nm Service Life (T = +25 °C) 20000 h Risk Group (EN 62471) 2 5000 Lux Max. Ambient Light **Electrical Data** 18...30 V DC Supply Voltage Max. Current Consumption (Ub = 24 V) 3,5 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 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 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.
Control Panel No.

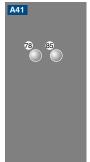
Suitable Connection Equipment No.

Suitable Mounting Technology No.

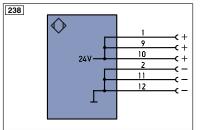


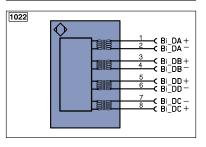


Ctrl. Panel



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











