ShapeDrive

238 1022

A41

50 87

343

MLAS104

Part Number



- 10 Gbit/s interface for high speed data transfer
- 5 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.



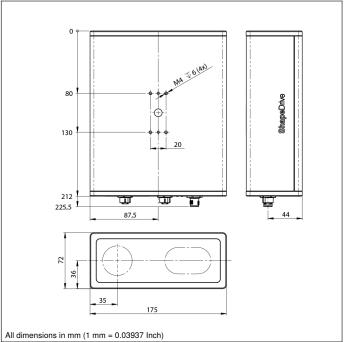
Technical Data Optical Data Working range Z 390...590 mm Measuring range Z 200 mm Measuring range X 240 mm Measuring range Y 200 mm Resolution Z 12 μm Resolution X/Y 98 μm 2448 × 2048 Pixel Camera Resolution Light Source LED (blue) Wavelength 460 nm Service Life (T = +25 °C) 20000 h Risk Group (EN 62471) 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 0,188...0,61 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.

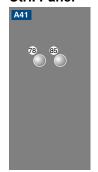
Suitable Connection Equipment No.

Suitable Mounting Technology No.

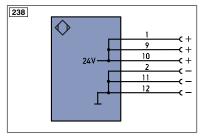


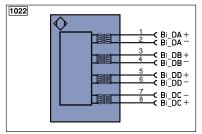


Ctrl. Panel



78 = Module status 85 = Link/Act LED





| _eger | 10 | PT | Platinum measuring resistor | ENARS422 | Encoder A/Ā (TTL) |
|---------|--|-------|--------------------------------|----------|--------------------------------|
| + | Supply Voltage + | nc | not connected | ENBR5422 | 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 |
| ٧ | Contamination/Error Output (NO) | 0 | Analog Output | Аок | Digital output OK |
| V | Contamination/Error Output (NC) | 0- | Ground for the Analog Output | SY In | Synchronization In |
| Е | Input (analog or digital) | BZ | Block Discharge | SY OUT | |
| Т | Teach Input | Awv | 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 | olors according to DIN IEC 757 |
| 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 |
| • | 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 | | Input confirmation | PK | Pink |
| FNnessa | Encoder 0-pulse 0-0 (TTL) | EDM | Contactor Monitoring | GNYE | Green/Yellow |

Measuring Volume

