COMMUNICATIONS
Communication with the sensor occurs via the Ethernet network.
Direct connection: personal computer is connected directly to device using a "cross-cable".

Warning: in case of direct connection the PC requires a fixed IP address
Through LAN: use common network (non-cross) cables normally used to connect devices to routing hubs.

The sensor has the following default IP address: IP Address: 172.17.101.208
Subnet mask: 255.255.0.0

HARDWARE CONNECTIONS
M12 2 Poles (Power and I/O)

Inputs:
- Power, green; pin 1: White/Orange: Rx+
- Monitor, green: pin 2: White/Green: Tx+
- Ring, orange: pin 3: Orange: Rx-
- Standard M12 connectors: pin 4: Green: Tx-
- Teach button: pin 5: grey: Output 2
- Image sensor 640x480 pixel: pin 6: pink: Output 3
- Blue: pin 7: blue: Ground
- R: pin 8: red: External Trigger

Outputs:
- 4 PNP transistors with short circuit protection
- Output Current: 200 mA max
- Output Saturation Voltage: +2 V

NOTE:
- Output 4 is configurable as External Illuminator Strobe.

OPERATING DISTANCE

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<th>Operating distance (mm)</th>
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MECHANICAL DIMENSIONS

Height: 69.8 mm
Width: 51.5 mm
Depth: 40 mm

INDICATORS
1. Power, green;
2. Output 1, orange;
3. Output 2, orange;

ELECTRIC CONNECTIONS
M12 4 poles Ethernet: (connectivity)
- pin 1: White/Orange: Rx+
- pin 2: White/Green: Tx+
- pin 3: Orange: Rx-
- pin 4: Green: Tx-

M12 8 poles: (power and I/O)
- pin 1: white: Inspection Selection Input
- pin 2: brown: 24 VDC
- pin 3: green: Output 4 / Ext. Illuminator Strobe
- pin 4: yellow: Output 1
- pin 5: grey: Output 2
- pin 6: pink: Output 3
- pin 7: blue: Ground
- pin 8: red: External Trigger

CONTROL PANEL

Pattern Match: Searches for a pattern inside a target area
Shape control: Verifies the integrity of mechanical parts contu
Position: Identifies the object position (edge detection)
Width: Controls the level of liquids in bottles
Edge Count: Counts the blisters in film or sheets of paper
Contrast: Calculates the contrast in an image
Brightness: Verifies the presence of cap and nozzle on phial or bottles
Geometric Pattern Match: Searches for a pattern in the target area. It able to set the position and the orientation of a target

TERMINAL OUTPUTS

- POWER: Voltage: 24 VDC ± 10%
- Current draw with illuminator: 1.5 mA max
- Power: 2 Vpp max without illuminator
- Network interface: M12 8 poles, 10/100 Mbps Ethernet
- Dimensions: 260 x 68 x 50 mm
- Weight: 125 g
- Operating Temperature: -25 °C ~ +75 °C
- Storage Temperature: -25 °C ~ +75 °C
- Relative Humidity: 35% ~ 90% (non-condensing)
- Vibration: 0.25 g at 8 to 18 Hz; 0.5 g @ 13 to 155 Hz; 2 g @ 70 to 200 Hz; 2 hours on each axis
- Shock Resistance: 11 ms (30 G) 6 shock for every axis

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