Part Number



- Image processing functions
- MultiCore technology
- Pattern matching

The vision sensor weQubeVision is based on the wenglor MultiCore technology. The functions autofocus, region of interest and tracking ensure optimal object detection. The following image processing modules are available: Dimensional accuracy check, sorting procedures, presence control, object counting, position output, pixel counting, pattern matching, filter options, and statistics evaluation.



## **Technical Data**

≥ 20 mm  736 × 480 Pixel  monochrome  Infrared Light  100000 h  see Table 1
736 × 480 Pixel monochrome Infrared Light 100000 h see Table 1
monochrome Infrared Light 100000 h see Table 1
Infrared Light 100000 h see Table 1
100000 h see Table 1
see Table 1
25 Hz
1830 V DC
< 200 mA
40 ms
-2555 °C*
6
< 2,5 V
100 mA
yes
yes
RS-232/Ethernet
III
Ethernet
Aluminum
IP67
M12 × 1; 12-pin
M12 × 1; 8-pin, X-co
230,41 a
yes
002 1008
X2
50 87
560

Display brightness may decrease with age. This does not result in any impairment of the sensor function.

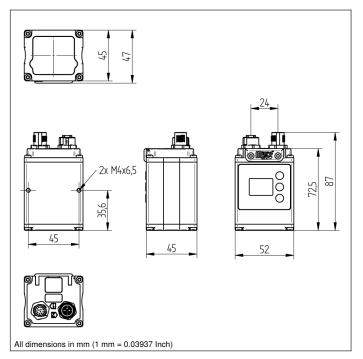
 $^{\star}$  -25  $^{\circ}$  C: Ambient conditions should not result in condensation; avoid the formation of ice on the front panel!

55° C: Continuous illumination at max. 1% or flash mode at 100% brightness with an exposure time of ≤ 5 ms; may affect the service life of the product.

## **Complementary Products**

Complementary Products					
Disk with Polarization Filter ZNNG004					
Illumination Technology					
Protective Housing ZNNS001, ZNNS002					
Software					
weQubeDecode License Upgrade DNNL002					
weQubeOCR License Upgrade DNNL003					

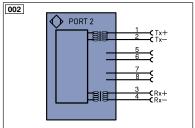


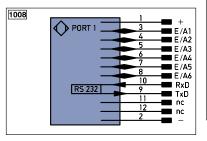


## Ctrl. Panel



- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 60 = Display





Leger	nd	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
V	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	Synchronization 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 Colors 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 (A-D)	RES	Input confirmation		Pink
ENerse	2 Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow

Table 1

Working Distance	20 mm	200 mm	1000 mm
Visual Field	16 × 12 mm	120 × 90 mm	600 × 450 mm









