

Vision sensor takes a closer look at your production.



Optical object inspection for packaging, manufacturing and quality control.

- Stand-alone unit with integrated illumination.
- For inspection tasks with variable features.
- Compact and robust design.
- User-friendly parameter setting.
- Integrated Ethernet process interfaces (TCP/IP, Ethernet IP).









Stand-alone unit

with integrated lighting and evaluation in a robust, industrially compatible IP 67 housing for use in the temperature range of -10...60 °C.

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User-friendly parameter setting

efector

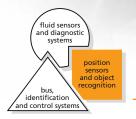
All parameters can be set conveniently via a menu-guided parameter setting software.

Object recognition

The blob analysis used determines the selected characteristics of objects. They allow to check the presence, size, position or completeness of the objects.

Ethernet process interfaces

The Ethernet interface also provides remote maintenance with storage of error images and evaluation data, an update option for the sensors as well as the process image for the connection of programmable logic controllers.





The vision sensor checks if the chocolate mould is empty before it is refilled.



Object recognition



Applications:

Monitoring presence, completeness, position, size and quality as well as sorting tasks.

Type of light	Operating distance [mm]						Order	
	50	75	100	200	400	1000	2000	no.
Switching outputs PNP · Field of view size [mm] · Resolution from 0.1 mm								
white light	16 x 12	24 x 18	32 x 24	64 x 48	128 x 96	320 x 240	640 x 480	O2V100
	33 x 24	50 x 36	66 x 47	132 x 94	264 x 189	660 x 472	1320 x 945	O2V102
	-	15 x 11	20 x 15	40 x 30	80 x 60	200 x 150	400 x 300	O2V104
Switching outputs NPN · Field of view size [mm] · Resolution from 0.1 mm								
white light	16 x 12	24 x 18	32 x 24	64 x 48	128 x 96	320 x 240	640 x 480	O2V101
	33 x 24	50 x 36	66 x 47	132 x 94	264 x 189	660 x 472	1320 x 945	O2V103
	_	15 x 11	20 x 15	40 x 30	80 x 60	200 x 150	400 x 300	O2V105

Accessories

Stainless steel mounting set	
for rod mounting Ø 12 mm	E2D11
Stainless steel mounting set for rod mounting Ø 14 mm	E2D11
Operating software for image sensor	E2V10
Clamp linking ring, high-grade stainless steel	E2107
Clamp, high-grade stainless steel, Ø 12 mm	E2111
Mounting rod, 100 mm, Ø 12 mm, M10 thread, stainless steel	E2093
Mounting rod, 100 mm, Ø 14 mm, M12 thread, stainless steel	E2093
Mounting rod, 150 mm, Ø 12 mm	E2111
Mounting rod, 200 mm, Ø 12 mm	E2111
Mounting rod, 300 mm, Ø 12 mm	E2111
Diffuser	E2116
Protective plastic cover	E2116
Protective glass cover	E2116
Ethernet cable, 2 m, M12 D-coded	E2113
Ethernet cable, 5 m, M12 D-coded	E2113
Ethernet cable, 10 m, M12 D-coded	E2113
Ethernet adapter, M12 / RJ45, angled	E2114
onic — close to you!	
	for rod mounting Ø 14 mm Operating software for image sensor Clamp linking ring, high-grade stainless steel Clamp, high-grade stainless steel, Ø 12 mm Mounting rod, 100 mm, Ø 12 mm, M10 thread, stainless steel Mounting rod, 100 mm, Ø 14 mm, M12 thread, stainless steel Mounting rod, 150 mm, Ø 12 mm Mounting rod, 200 mm, Ø 12 mm Mounting rod, 300 mm, Ø 12 mm Diffuser Protective plastic cover Protective glass cover Ethernet cable, 2 m, M12 D-coded Ethernet cable, 10 m, M12 D-coded Ethernet adapter, M12 / RJ45, angled

Common technical data							
Type of sensor		CMOS image sensor black/white, 640 x 480					
Detection rate	[Hz]	max. 10					
Motion speed	[m/s]	typ. 1					
Function display	LED	7					
Operating voltage	[V]	24 DC ± 10 %					
Current consumption	[mA]	< 300					
Current rating	[mA]	100 (per switching output)					
Ambient temperature	[°C]	-1060					
Protection		IP 67, III					
Material	housing front lens LED window	diecast zinc glass polycarbonate					
Switching inputs (configu	max. 2 , 24 V						
Switching outputs (config	max. 5, 24 V						
Connection external light	DC 24 V						
Parameter setting interfac	ce	Ethernet TCP/IP / Ethernet IP					
Dimensions	[mm]	60 x 42 x 53 (59)					

Connectors and splitter boxes

Туре	Description	Order no.
0	M12 socket, 2 m, PUR cable, 8-pole	E11950
	M12 socket, 5 m, PUR cable, 8-pole	E11807
00	Parameter setting cable, 2 m, M12 D-coded / RJ45, cross-link	E11898