

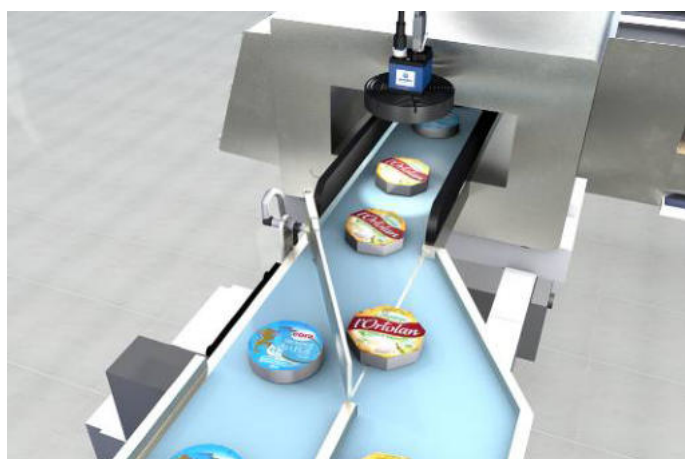
BB6K005

Part Number



- Compact and robust aluminum housing in 29 × 49.1 × 29 mm format
- Different lenses can be adapted thanks to standard thread
- High-resolution 4000 x 3000-pixel image chip

Digital cameras make it possible to record images in vision applications. The images are read out via a 1-gigabit Ethernet interface. The camera can be connected via a PoE port so that only one cable is required. The small and rugged aluminum housing as well as the C-mount threaded connection can be easily and flexibly integrated. The high-performance Sony Starvis image chip ensures high resolution and optimum image quality without noise even in difficult lighting conditions.



Technical Data

Optical Data

Resolution	4000 × 3000 Pixel
Resolution	12 MPixel
Aspect Ratio	4:3
Pixel Size	1,85 × 1,85 µm
Sensor Type	CMOS
Sensor Designation	Sony IMX226CLJ-C
Image Chip	monochrome
Image chip size	1/1,7"
Frame Rate	< 10 fps

Electrical Data

Supply Voltage	12...24 V DC
Current Consumption (Ub = 24 V)	< 130 mA
Temperature Range	0...55 °C
Storage temperature	-20...60 °C
Atmospheric humidity	20...80 %
Number of GPIOs (general purpose I/Os)	2
GPIO voltage range	0...3,3 V DC
GPIO maximum output current	8 mA
GPIO protective circuit	no
Number of Flash Outputs	1
Flash Output	Optoisolator
Number of trigger inputs	1
Trigger Input	Optoisolator
Short Circuit Protection	no
Overload Protection	no
Supported PoE Classes	2
Supported PoE Standard	IEEE802.3af, IEEE802.at
Protection Class	III

Mechanical Data

Lens thread	C-Mount
Housing Material	Aluminum
Weight	49 g
Degree of Protection	IP30
Connection	HR25, 8-pin
Type of Connection Ethernet	RJ45, 8-pin

Safety-relevant Data

Diagnostic Coverage (DC)	0 %
MTTFd (EN ISO 13849-1)	39,29 a
Mission Time TM (EN ISO 13849-1)	20 a

Function

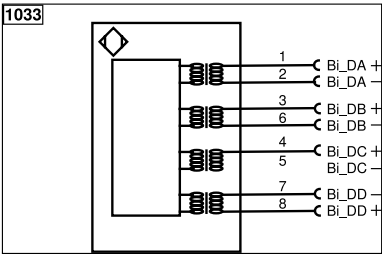
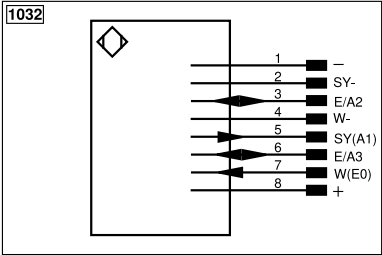
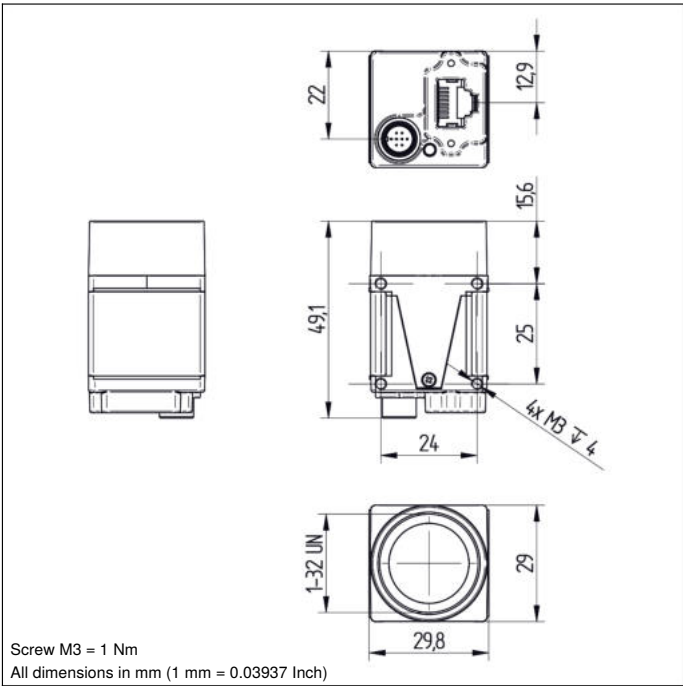
Subsampling	yes
Rolling shutter	yes

PoE

Connection Diagram No.	1032	1033
Suitable Connection Equipment No.	85	47
Suitable Mounting Technology No.	580	

Complementary Products

Control Unit BB1C
Illumination Technology
Lens
Software
Switch EHSS001



Legend					
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted	ENB	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
Ä	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	O	Analog Output	AOK	Digital output OK
Ÿ	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
T	Teach Input	Amv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN 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
IO-Link	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_DA+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
ENo RS422	Encoder 0-pulse 0/Ü (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENARIS422	Encoder A/A (TTL)		