

Machine Vision Camera

BBZK003

Part Number



- Compact and robust housing in 29 × 56.5 × 29 mm format
- Different lenses can be adapted thanks to standard thread
- Flexible mounting options from 4 sides
- Image chip with Global Shutter for dynamic applications

Machine Vision 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 housing and the C mount threaded connection can be easily and flexibly integrated. State-of-the-art CMOS sensor technology ensures high resolution and optimum image quality without noise even in difficult lighting conditions.

Technical Data

Optical Data

Resolution	2448 × 2048 Pixel
Resolution	5 MP
Aspect Ratio	5:4
Pixel Size	3,45 × 3,45 μm
Sensor Type	CMOS
Sensor Designation	IMX264
Image Chip	monochrome
Image chip size	2/3"
Frame Rate	< 24,2 fps

Electrical Data

Supply Voltage	9...24 V DC
Current Consumption (Ub = 24 V)	< 130 mA
Temperature Range	-30...60 °C
Storage temperature	-30...70 °C
Atmospheric humidity	20...95 %
Number of GPIOs (general purpose I/Os)	1
GPIO voltage range	0...24 V DC
GPIO maximum output current	25 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
Protection Class	III

Mechanical Data

Lens thread	C-Mount
Housing Material	Aluminum
Weight	100 g
Degree of Protection	IP40
Connection	HR10; 6-pin
Type of Connection Ethernet	RJ45, 8-pin

Function

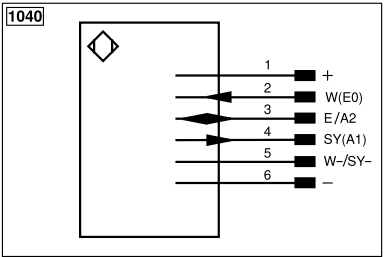
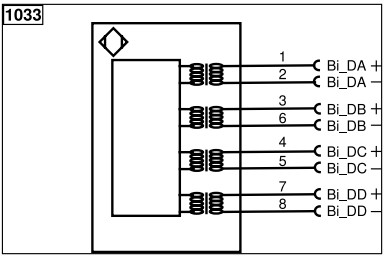
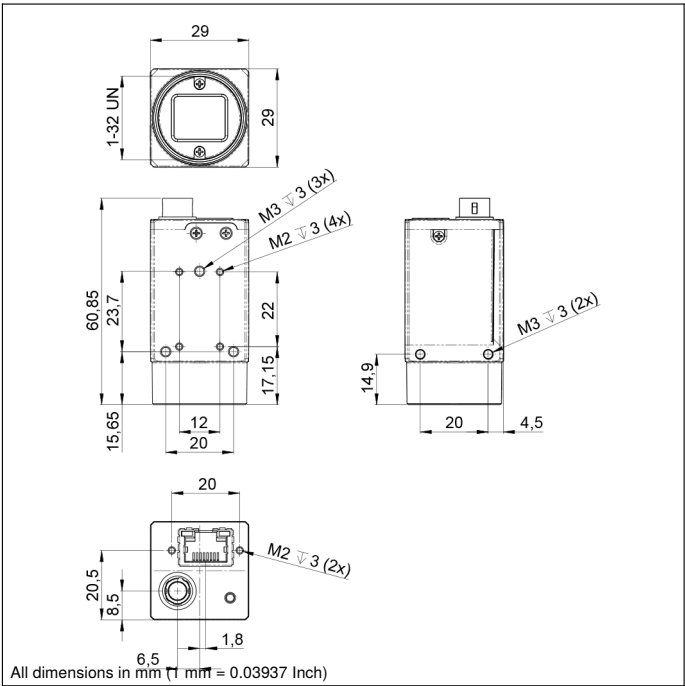
Global Shutter	yes
----------------	-----

PoE

Suitable Connection Equipment No.	84	47
Suitable Mounting Technology No.	590	

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	
Ȳ	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_D+/-	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)			

