



PINS632

Pinspector 2D

QUALITY CONTROL SYSTEMS





Illustration may differ

Ordering information

Туре	part no.
PINS632	1107738

Other models and accessories → www.sick.com/Pinspector_2D

Detailed technical data

Features

Technology	2D snapshot
Light source	
	Illumination LEDs: (to be ordered separately as accessories) Laser alignment aid: visible red light (λ = 630 nm 680 nm)
Laser class	1, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 50" from June 24, 2007 (IEC 60825-1:2014, EN 60825-1:2014)
Focus	Adjustable focus (manually)
Sensor	CMOS matrix sensor, grayscale values, 1.9 Mpixel, 1,600 px, 1,200 px
Spectral range	Approx. 400 nm 900 nm
Lens	C-mount

Mechanics/electronics

Dimensions, system (L x W x H)	108 mm x 63 mm x 46 mm (Housing only, without lens and optics protection hood)	
Enclosure rating	IP67 (EN 60529 (1991-10), EN 60529/A2 (2002-02))	
Protection class	III (EN 60950-1 (2014-08))	
Power consumption	Typ. 10 W, ± 20 %	
Housing material	Aluminum die cast	
Output current	≤ 100 mA	
Connections	1 x M12, 17-pin male connector (serial, I/Os, voltage supply) 1 x M8, 4-pin female connector (USB, not used) 2 x M12, 8-pin female connector (Gigabit Ethernet, only one connection used) 1 x M12, 4-pin male connector (external illumination)	
Supply voltage	12 V DC 24 V DC, ± 20 %	
Window material	PMMA	
Weight	430 g	

Performance

Bar code types	2/5 Industrial Interleaved 2 of 5
	Codabar
	Code 39
	Code 93

	Code 128 EAN-8 EAN13 Pharmacode
2D code types	Data Matrix ECC200 QR code Micro QR code PDF417 Aztec
OCR/OCV fonts	Universal, industrial, document, DotPrint, pharma, OCR-A, OCR-B, Arabic numbers
Maximum encoder frequency	1 kHz

Interfaces

Serial (RS-232, RS-422)	√	
Data transmission rate	(300 Baud 115.2 kBaud)	
Ethernet	✓, TCP/IP	
Function	EtherNet/IP UDP / PROFINET FTP HTTP	
Data transmission rate	10/100/1,000 Mbit/s	
Operator interface	Web server	
Optical indicators	5 x status display, 5 x LED bar graph, 1 green/red feedback spot	
Data storage and retrieval	Image and data logging via microSD memory card and external FTP	
Control element	2 buttons	
Acoustic indicators	Beeper	

Ambient data

Ambient temperature, operation	ature, operation 0 °C +50 °C, permissible relative humidity: 0% 90% (non-condensing)	
Ambient temperature, storage	-20 °C +70 °C ¹⁾	
Shock load	EN 60068-2-27:2009-05	
Vibration load	EN 60068-2-6:2008-02	

 $^{^{1)}}$ Permissible relative humidity: 0% ... 90% (non-condensing).

General notes

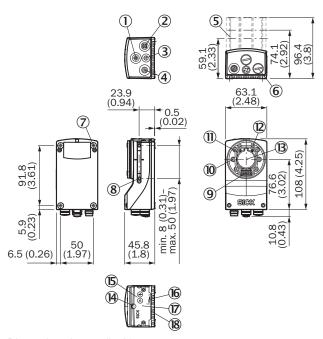
Items supplied	InspectorP V2D621P-2MSFBB5 LabelChecker software
	Euderonico Software

Classifications

ECLASS 5.0	27310205
ECLASS 5.1.4	27310205
ECLASS 6.0	27310205
ECLASS 6.2	27310205
ECLASS 7.0	27310205
ECLASS 8.0	27310205
ECLASS 8.1	27310205
ECLASS 9.0	27310205
ECLASS 10.0	27289090
ECLASS 11.0	27289090

ECLASS 12.0	27289090
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC 16.0901	43211731

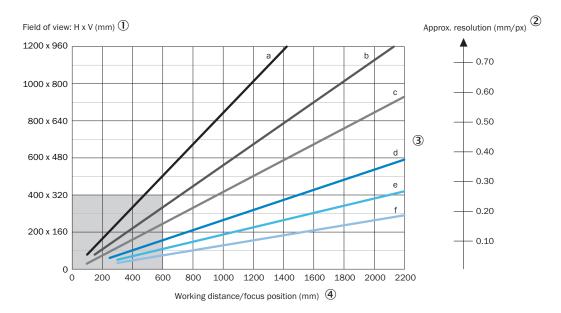
Dimensional drawing

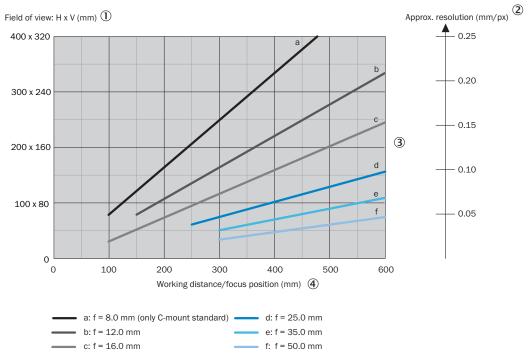


Dimensions in mm (inch)

- ① "External light" connection (external illumination unit, female connector, M12, 4-pin, A-coded)
- ② "Ethernet" connection (Gigabit Ethernet, female connector, M12, 8-pin, X-coded)
- 3 "USB" connection (female connector, type M8, 4-pin), for temporary use as a service interface only
- ④ "Power/Serial Data/CAN/I/O" connection (male connector, M12, 17-pin, A-coded)
- ⑤ Optics protection hood (length: 22.7 mm, 37.7 mm or 60 mm)
- (a) 4 protective caps for sealing off the electrical connections as required for enclosure rating IP67 (delivery condition)
- ① 4 tapped blind holes, M5, 5.5 mm deep for mounting the device
- ® 2 sliding nuts, M5, 5.5 mm deep, as an alternative method of mounting the device
- (VI55I ring illumination unit)
- 1 2 laser alignment aids
- 1 S-mount or C-mount optics module
- @ 4 blind tapped holes, 2.5 mm for mounting the spacers for the integrable illumination (VI55I ring illumination unit)
- (3) Optical axis and center of the image sensor
- (4) Basic device: Manual focus screw for an S-mount lens, accessible via the round opening in the housing cover. To secure the focus setting, cover the round opening with a self-adhesive label. Complete device: The opening is already covered by a label.
- 15 2 function keys
- 6 5 bar graph LEDs
- Thinged cover on the top side of the device, access to the microSD memory card and the manual focus screw (S-mount)
- ® 5 status LEDs (2 levels)

Characteristic curve

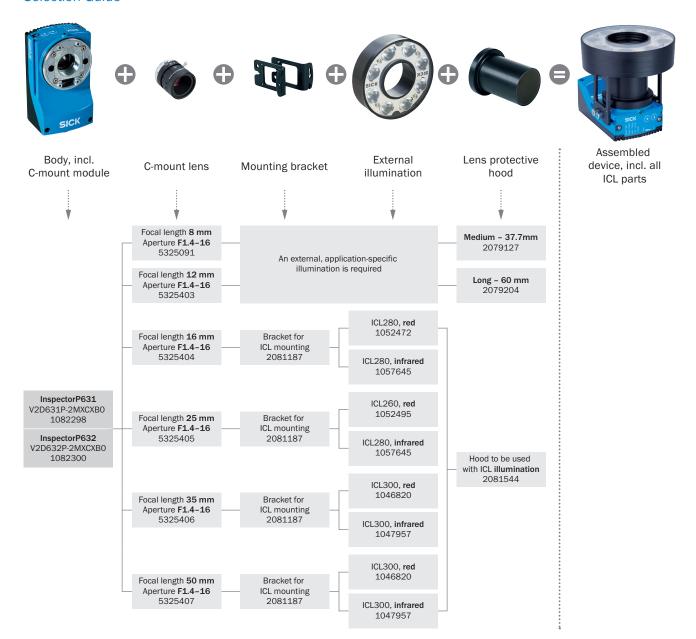




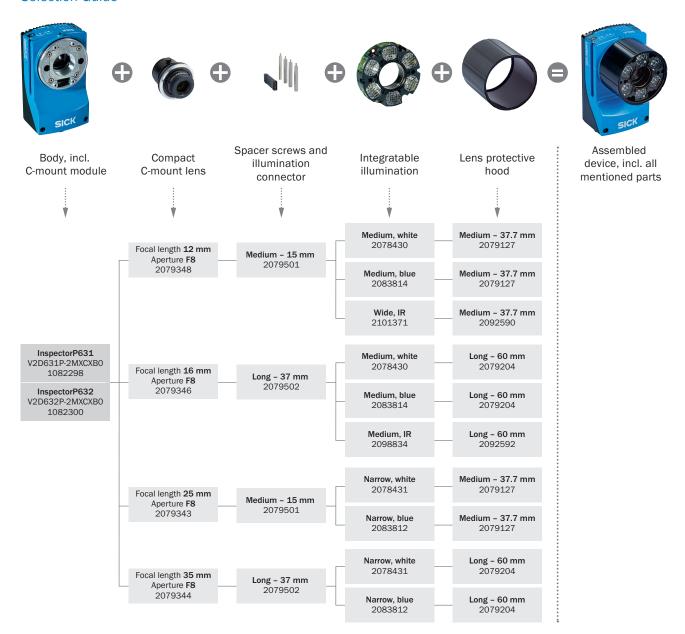
For S-mount and standard C-mount lenses, spacer rings are needed for working distances shorter than approximately 10 times the focal length. For compact C-mount lenses, spacer rings are not needed, but the built-in illumination cannot be used for distances shorter than 300 mm.

- ① Field of view: Horizontal x vertical in mm
- 2 approximate resolution in mm/px
- 3 Lens focal length
- Working distance/Focus position in mm

Selection Guide



Selection Guide



Recommended accessories

Other models and accessories → www.sick.com/Pinspector_2D

	Brief description	Туре	part no.	
Mounting systems				
	Description: Mounting bracket set consisting of mounting bracket, cooling plate, includes angle display for setting the tilt angle Suitable for: Lector63x, Inspector63x, Lector83x – up to 40 °C ambient operating temperature, Insepctor83x – up to 40 °C ambient operating temperature, Lector83x – up to 40 °C ambient operating temperature, Insepctor83x – up to 40 °C ambient operating temperature, Lector63x, Inspector63x	Mounting bracket set with inclination angle -40°-40°	2076735	

	Brief description	Туре	part no.		
reflectors and	reflectors and optics				
	 Description: C-mount 2/3", focal length 35 mm, aperture 1.4 - 16 Dimensions: 36.5 mm Without C-mount thread 	C-mount lens	5325406		
	 Description: C-mount 1/1.8", focal length 50 mm, aperture 1.4 - 16 Dimensions: 62.6 mm Without C-mount thread 	C-mount lens	5325407		
0	Description: Optics protection hood, long, enclosure rating IP 67, length: 60 mm, PMMA, for use with compact C-mount lens with focal length 16 mm or 35 mm	Optics protection hood (PMMA)	2079204		
	Description: Adapter ring, from CS-mount to C-mount lenses, 17.5 mm focal length	Spacer ring	2047711		
connectors an	d cables				
	 Connection type head A: Female connector, M12, 17-pin, straight, A-coded Connection type head B: Flying leads Signal type: Power, serial, CAN, digital I/Os Cable: 3 m, 17-wire, stripped, PE-X Description: Power, suitable for 2 A, shielded, Serial, Changed color coding of the flying leads, CAN, Digital I/Os Connection systems: Flying leads Note: Max. permissible current strength at ambient temperature 50 °C: Contact 1 (blue) and contact 2 (brown): 3 A while the remaining contacts are operated with max. 100 mA; max. permissible current strength at ambient temperature 40 °C: 2 A for two and 1.5 A for 15 contacts. Application: Drag chain operation 	YF2ASD-030XXXXLECX	2070425		
1	 Connection type head A: Male connector, M12, 8-pin, straight, X-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Gigabit Ethernet Cable: 2 m, 8-wire, AWG26, PUR, halogen-free Description: Gigabit Ethernet, twisted pair, shielded Application: Zones with oils and lubricants 	YM2X18-020EG2M- RJA8	6049728		

SICK AT A GLANCE

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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