

KiwiEye Kit

K001010 - K101010 - K001013 - K101013

Detection system with AI



Function

The system, installed on industrial machines or industrial vehicles, compliant with the machinery directive 2006/42/CE and integrated with the appropriate accessories, is able to carry out following features:

- People detection and distance measurement
- Forklift detection and distance measurement
- Road sign detection and distance measurement
- Aruco markers detection and distance measurement
- Partial and total optics occlusions detection

Directives

Directive 2014/30/EU

Directive RED 2014/53/EU

Electromagnetic Compatibility for:

Industrial trucks UNI EN 12895:2019

Earthmoving and construction machinery ISO 13766-1:2018 - Part 1

Earthmoving and construction machinery ISO 13766-1:2018 - Part 2

Agricultural and forestry machinery UNI EN ISO 14982:2009 and related standards / ETSI standards

Kit general information K001010 - K101010

Products		Accessories		Weight
Code	Description	Code	Description	
X001010 or X101010	KiwiEye optical sensor or KiwiEye optical sensor (ethernet version)	C002152	KiwiEye wiring (CAN + Power supply)	1930 g 68,1 oz
M101811	Bracket	C002160	KiwiEye wiring	

Kit general information K001013 - K101013

Products		Accessories		Weight
Code	Description	Code	Description	
X001013 or X101013	KiwiEye optical sensor IP67, IP69K or KiwiEye optical sensor (ethernet version) IP67, IP69K	C002152	KiwiEye wiring (CAN + Power supply)	1930 g 68,1 oz
M101811	Bracket	C002160	KiwiEye wiring	

Technical Data

Mechanical specifications

Dimensions	145 x 67 x 90 mm 5,7 x 2,6 x 3,5 in	Material	Rear: Aluminium 6061 Front: ABS
Weight	900 g 31,8 oz	IP	IP67 and IP69K (only for X001013 and X101013)

Electrical specifications

	min	typ.	max		typ.	max
Power supply (Vdc)	8	12/24	60	Power consumption (W)	14	24
Grounding	Electrically insulated case					

Environmental conditions

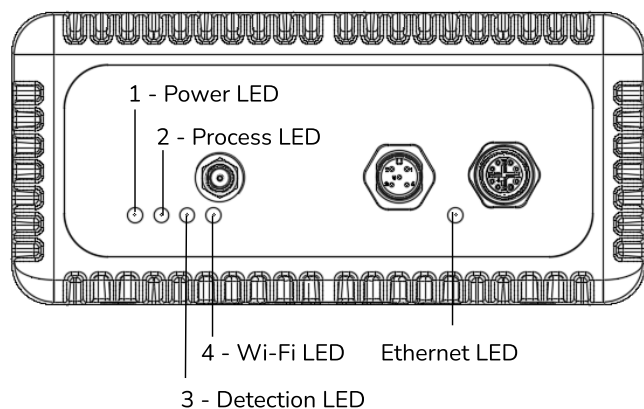
Ambient temperature	from -20 to +60 °C from -4 to 140 °F	Ambient humidity	65% RH (no condensation)
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Sensors

Resolution	640 x 360 (Image) 1280 x 720 (Depth)	Frame rate	30 fps (33 ms)
Shutter system	Global shutter	Modules	RGB/Depth
Detection distance	up to 25 m up to 82 feet (KiwiEye) up to 8 m up to 26,2 feet (Radar funct.)	Field of view	Horiz: 90° Vert: 65°

Technical Data

Indicators/Operating principles



Powered system	Power LED (1) fixed
Pre-operating system	Process LED (2) fixed
Operating system	Process LED (2) flashing
Detecting system	Detection LED (3) flashing
Wi-Fi communication	Wi-Fi Connection LED (4) fixed
Ethernet communication	Ethernet communication active Ethernet LED flashing

Indicators/Operating principles Radar functionality¹

Powered system: Power LED (1) fixed

Pre-operating system: Process LED (2) fixed

Operating system: Process LED (2) flashing: one short blink followed by one long blink

Detecting system: Detection LED (3) fixed

Wi-Fi communication: Wi-Fi Connection LED (4) fixed

Ethernet communication: Ethernet connection LED flashing

Interfaces

CAN Open

Wi-Fi

LAN

Ethernet (only for X101010)

¹With the Radar function active, in operating mode the LED indicators will be displayed according to the KiwiEye principles, since the standard operation of KiwiEye has priority over the Radar function (see manual).