Label Detection

KIM Series

NEW!

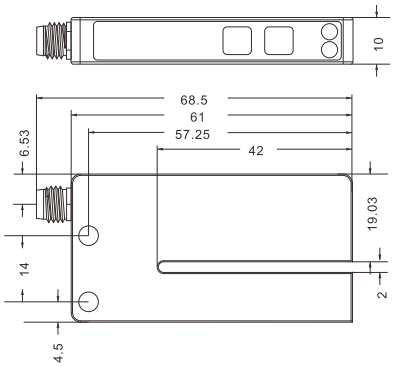
Basic Features	Working principle	Photoelectric sensor	
	Housing style	Shape U	
	Optical working principle	Through-beam	
	Light source	Infrared LED, 940nm	
	Slot width	2mm	3mm
	Slot depth	42mm	
	Detecting object	2mm (minimum label gap)	2mm (minimum label gap) 2mm (minimum label length)
	Indicator light	Output function: Red LED, operational status: Green LED	
Electrical data	Switching mode	L.on (light-on action)/D.on (dark-on action) switchable	
	Output mode	NPN or PNP collector open	
	Response time	0.02ms	
	Switching frequency	100kHz	
	Repeat accuracy	±0.02mm	
	Hysteresis	≤0.02mm	
	Operating voltage	12~24V DC ± 10%	
	Power consumption	≤40mA	
	Residual voltage	≤2V	
	Load current	≤100mA(24VDC)	
	Insulation resistance	≥50MΩ(500VDC)	
	Withstand voltage	1000VAC (50/60Hz)	
	Protection circuit	Reverse polarity protection/short-circuit protection	
Environmental conditions	Operating temperature	–10℃~+55℃	–20℃~+60℃
	Storage temperature	–30℃~+70℃	–30℃~+80℃
	Operating humidity	35%RH~85%RH	
	Storage humidity	35%RH~85%RH	
	Environmental illumination	Sunlight ≤10000 Lux	
	Vibration resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X/Y/Z axes	
	Protection rating	IP65	
Mechanical data	Connection method	M8/4-pin plug	
	Dimensions	32.5x10.0x61.0mm	63.6x25x10mm
	Material	Aluminum	PA (reinforced glass fiber)
	Weight	0.035kg	
	Accessories	Cable connectors sold separately	
Model	NPN	KIM07-0204NP	KIM07-0304N
	PNP		KIM07-0304P

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories
Guidance
Slot type sensors
Mirco slot type
Slot type
Wide slot type
Label detection

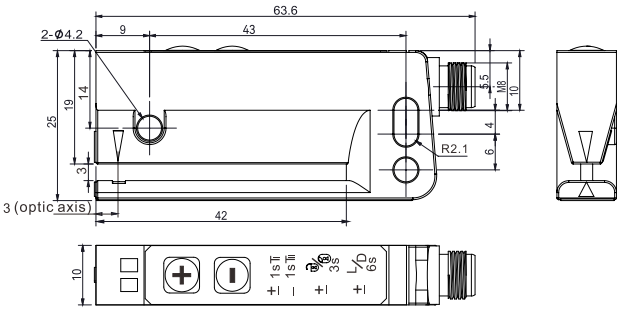
Unit: mm

Dimensions

KIM07-0204NP



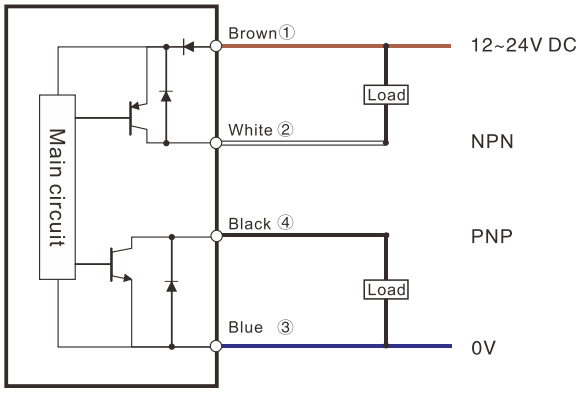
KIM07-0304N/P



Circuit diagram

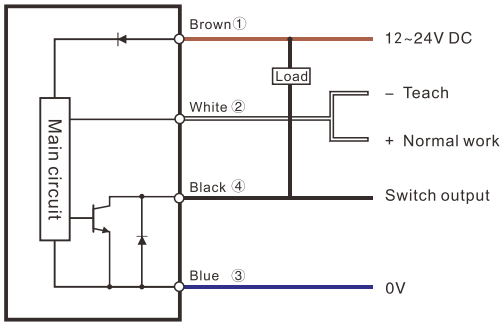
KIM07-0204NP

NPN/PNP

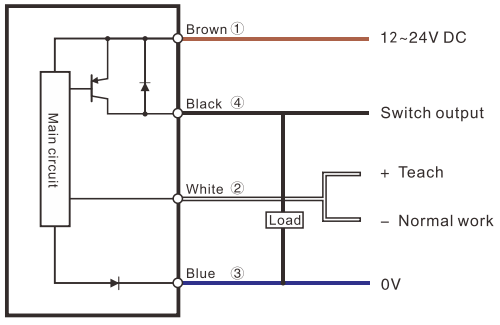


KIM07-0304N/P

NPN



PNP



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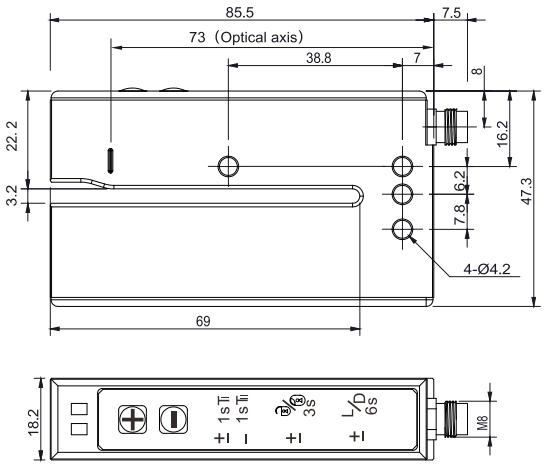
KUM Series

Basic Features	Working principle	Ultrasonic detection
	Housing style	U-shaped fork
	Optical working principle	Through-beam
	Transmitter	Ultrasonic
	Slot width	3.2mm
	Slot depth	69mm
	Detecting object	2mm minimum label gap
	Indicator light	Output function: Red LED, operational status: Green LED
Electrical data	Switching mode	L.on (light-on action)/D.on (dark-on action) switchable
	Output mode	NPN or PNP collector open
	Response time	0.3ms
	Switching frequency	1.5kHz
	Repeat accuracy	±0.2
	Hysteresis	–
	Operating voltage	12~24V DC ± 10%
	Power consumption	≤45mA
	Residual voltage	<2V@1L=100mA
	Load current	≤100mA
	Insulation resistance	DC500V insulation resistance >50MΩ
	Withstand voltage	Insulation voltage of VC100V when current <0.1mA
	Protection circuit	short-circuit protection
Environmental conditions	Operating temperature	–5~55℃
	Storage temperature	–20~70℃
	Operating humidity	35~95%RH(no condensation)
	Storage humidity	35~95%RH(no condensation)
	Environmental illumination	Unavailable
	Vibration resistance	10~50Hz, amplitude 1.5mm, 2 hours each in X/Y/Z axes
	Protection rating	IP65
Mechanical data	Connection method	M8/4-pin plug
	Dimensions	85.5x47.3x18.2mm
	Material	Aluminum
	Weight	0.019kg
	Accessories	–
Model	NPN	**KUM08-0307N**
	PNP	**KUM08-0307P**

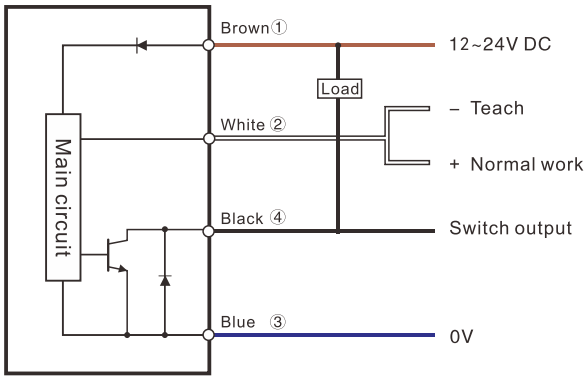
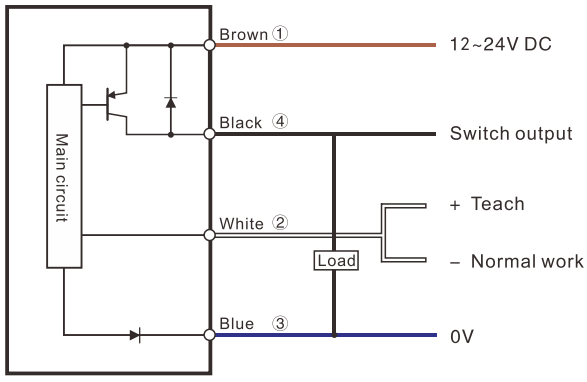
Unit: mm

Dimensions



Circuit diagram

NPN



PNP