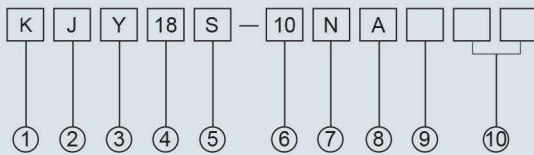




Features

- Long sensing distance (1.5 to 2 times longer sensing distance guaranteed compared to existing models)
- Exclusively designed IC for improved the noise resistance
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for micro switches and limit switches


Model Description



Item	Code	Description
① Company code	K	Company code
② Product name	J	Inductive proximity switch
③ Shape of shell	Y	Cylinder-shaped
④ Dimension code	18	18: M18
⑤ Distance type	S	Long-range type
⑥ Detection distance	10	10:10mm
⑦ Output mode	K	AC 2wires
	L	DC 2wires
	P	PNP
	N	NPN
⑧ Output state	A	NO
	B	NC
	C	NO+NC
⑨ Connection	Without	Without: 2M lead wire
	T	Plug-in
	R	Wiring leads Plug-in
⑩		Special requirements
		Represented by two digits

Specifications

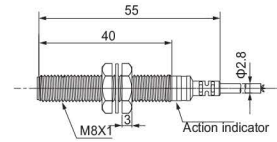
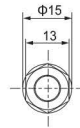
DC 3-wire type

Model	KJY08S-02NA KJY08S-02PA KJY08S-02NB KJY08S-02PB	KJY08S-04NA KJY08S-04PA KJY08S-04NB KJY08S-04PB	KJY12S-04NA KJY12S-04PA KJY12S-04NB KJY12S-04PB	KJY12S-08NA KJY12S-08PA KJY12S-08NB KJY12S-08PB	KJY18S-10NA KJY18S-10PA KJY18S-10NB KJY18S-10PB	KJY18S-15NA KJY18S-15PA KJY18S-15NB KJY18S-15PB	KJY30S-17NA KJY30S-17PA KJY30S-17NB KJY30S-17PB	KJY30S-25NA KJY30S-25PA KJY30S-25NB KJY30S-25PB
Sensing distance	2mm	4mm	4mm	8mm	10mm	15mm	17mm	25mm
Hysteresis	Max. 10% of sensing distance							
Standard sensing target	8 × 8 × 1mm (Iron)	8 × 8 × 1mm (Iron)	12 × 12 × 1mm (Iron)	25 × 25 × 1mm (Iron)	20 × 20 × 1mm (Iron)	40 × 40 × 1mm (Iron)	45 × 45 × 1mm (Iron)	75 × 75 × 1mm (Iron)
Setting distance	0~1.8mm	0~3.5mm	0~3.5mm	0~6.5mm	0~8.5mm	0~13.5mm	0~18.5mm	0~28.5mm
Power supply (Operating voltage)	12-24VDC (10-30VDC)							
Leakage current	Max.10mA							
Response frequency (※1)	450Hz	400Hz	250Hz	200Hz	100Hz	100Hz	100Hz	100Hz
Residual voltage (※2)	Max. 1V							
Affection by Temp.	Max. ± 10% for sensing distance at ambient temperature 20°C							
Control output	2~200mA							
Insulation resistance	Min. 50MΩ (at 500VDC megger)							
Dielectric strength	1500VAC 50/60Hz for 1minute							
Vibration	1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours							
Shock	500m/s ² (approx. 50G) X, Y, Z directions for 3 times							
Indicator	Operation indicator(red LED)							
Ambient temperature	-25~+70°C(No icing)							
Storage temperature	-30~+80°C(No icing)							
Ambient humidity	35~95%RH(No condensation)							
Protection circuit	Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit							
Material	Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: Heat-resistant ABS, Standard cable(Dark Grey): Polyvinyl chloride(PVC), Oil resistant cable(Dark Grey): Oil resistant Polyvinyl chloride(PVC)							
Cable	For cable type, 300mm, M12 connector), (AWG22, Core diameter: 0.1mm, Number of cores: 40, Insulator diameter: φ 1.25							
Approval								
Protection	IP67 (IEC Standard)							

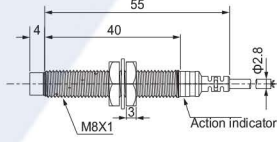
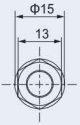
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

Dimensions

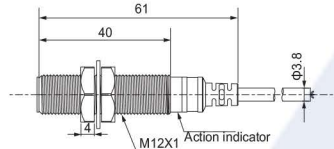
KJY08S-02



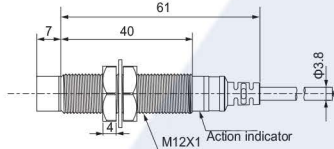
KJY08S-04



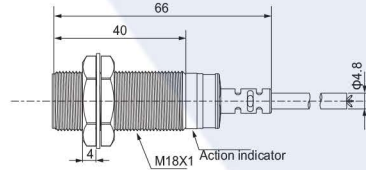
KJY12S-04



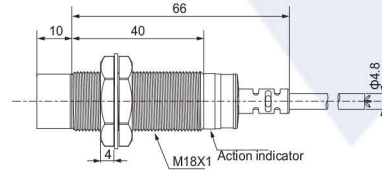
KJY12S-08



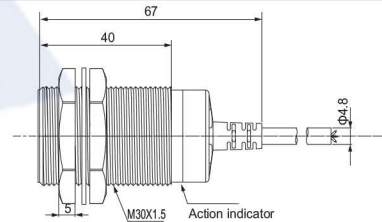
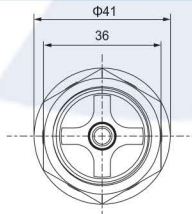
KJY18S-10



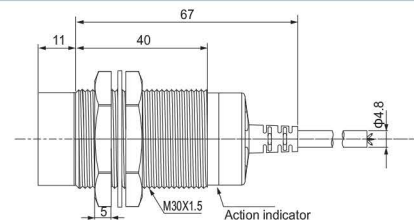
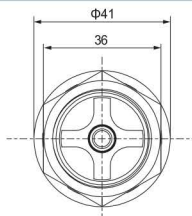
KJY18S-15



KJY30S-17

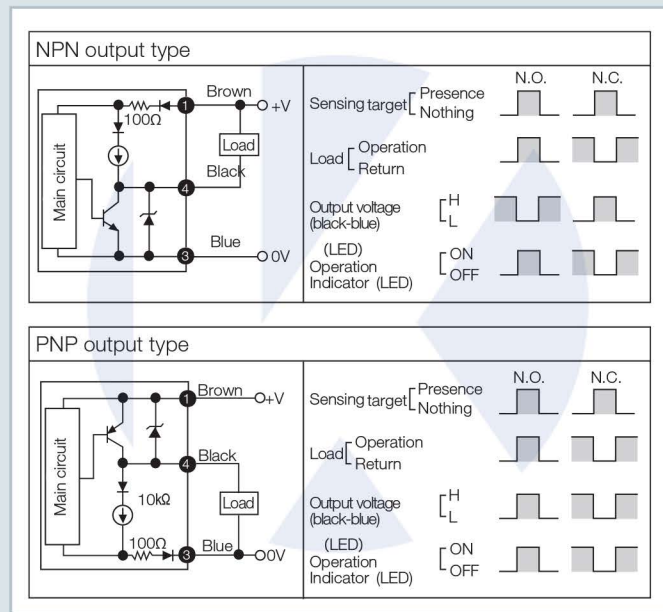


KJY30S-25



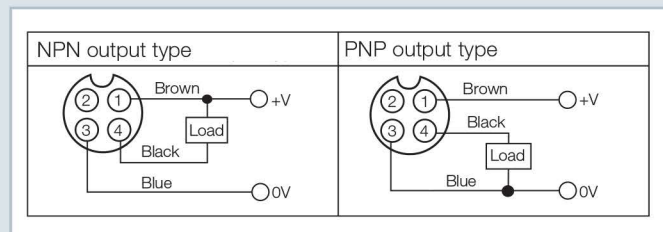
Control Output Diagram

DC 3-wire type



Wiring Diagram

DC 3-wire type (Standard type)



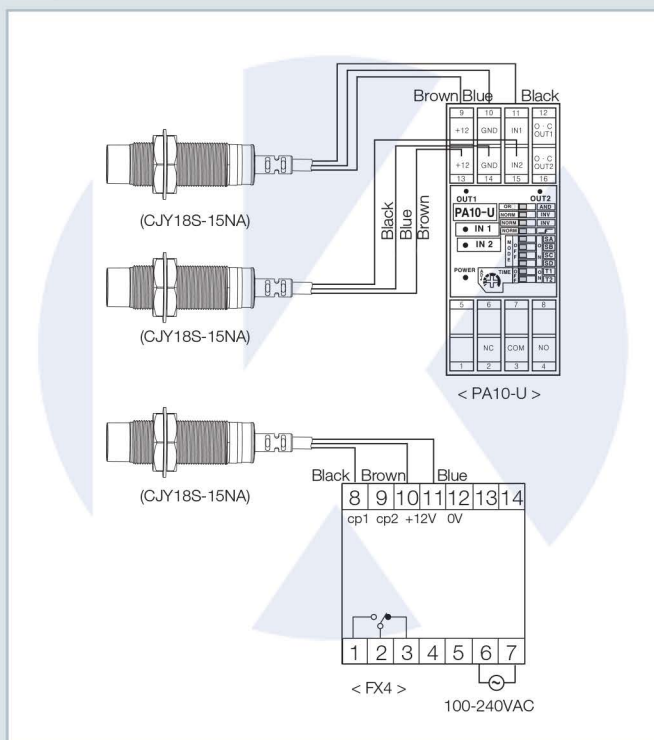
Proper Usage

Mutual-interference

When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.

Connections

DC 3-wire type

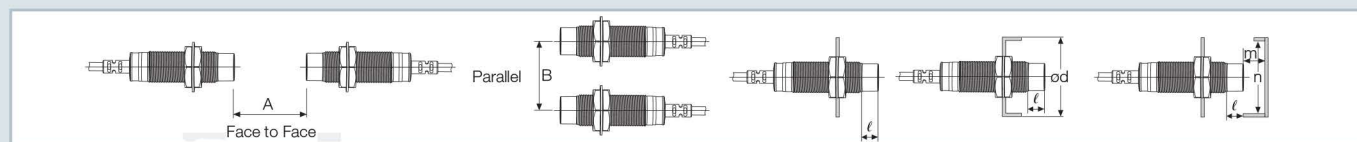


※ Please fasten the cleat of connector not to shown the thread. (0.39 to 0.49N.m)

※ Please fasten the vibration part with Teflon tape.

Influence by surrounding metals

When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



Item	Model	KJY08S-02	KJY08S-04	KJY12S-04	KJY12S-08	KJY18S-10	KJY18S-15	KJY30S-17	KJY30S-25
A		9	12	24	48	42	84	90	150
B		16	24	24	36	36	54	60	90
ℓ		0	8	0	11	0	14	0	15
φ d		8	24	12	36	18	54	30	90
m		4.5	6	12	24	21	42	45	75
n		12	24	18	36	27	54	45	90