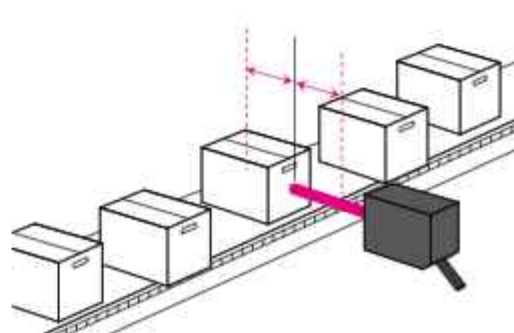
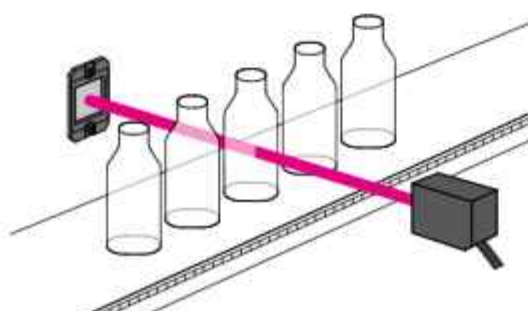
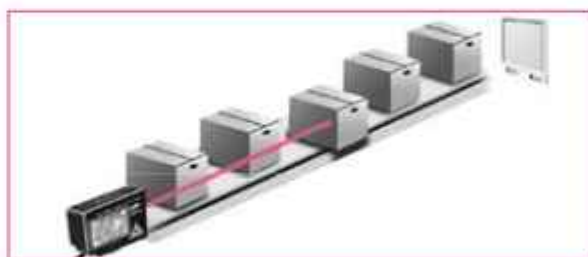
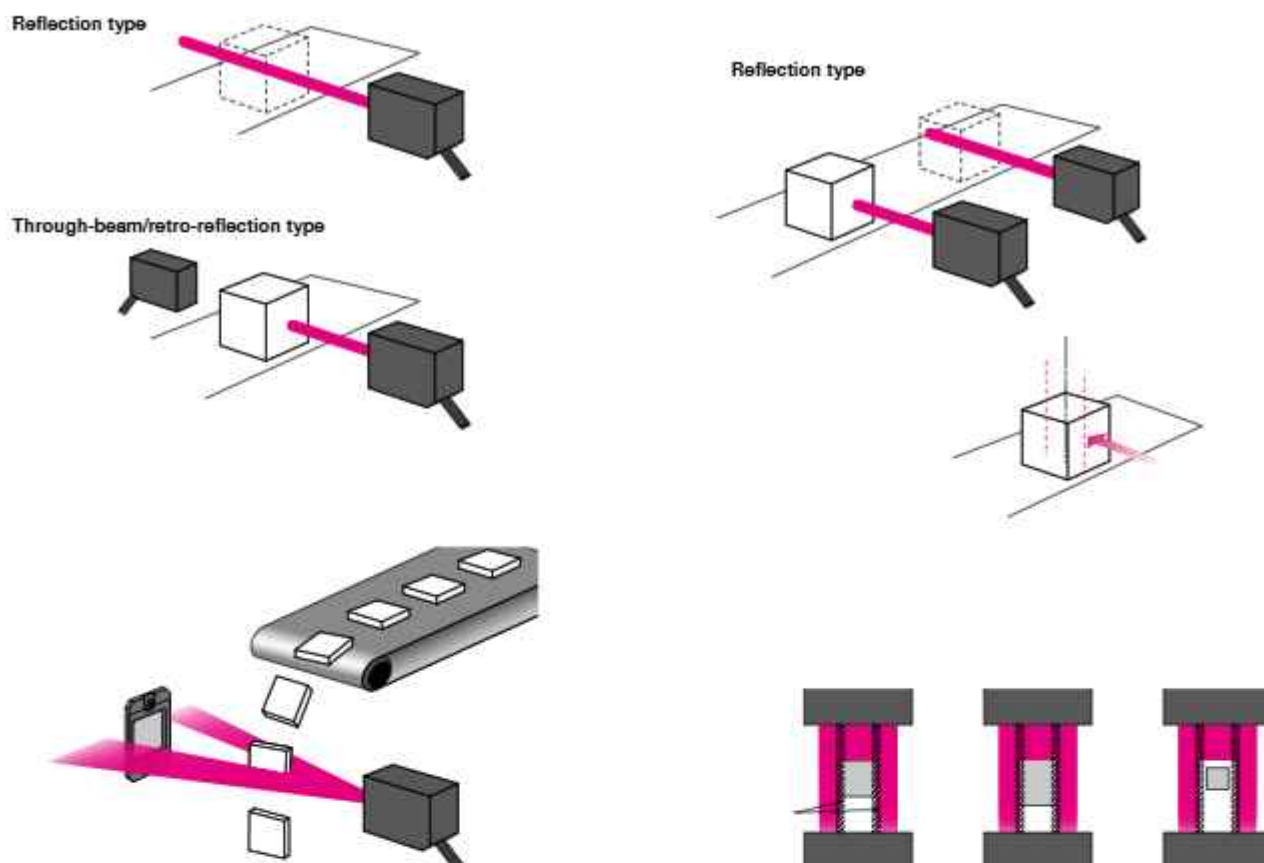




**High performance with easy handling!
Possible to detect transparent object!**





Specifications

Sensor head

Kinds		Through-beam type	Length measurement	Coaxial retro-reflection	Coaxial retro-reflection (long type)	Coaxial reflection
Appearance						
Model No.		JDA-15K5 Projector: JDA-15K5P Receiver: JDA-15K5R	JDA-15K5-W Projector: JDA-15K5-WP Receiver: JDA-15K5-WR	HDA-70K3	HDA-350K3	HDA-08K1
Optical system					Coaxial reflection	
Light source		Visible red semiconductor laser 650nm				
Laser class		JIS/IEC class1			JIS/IEC class2	
Max.power		390 μW			3mW	
Laser life		Approx.45,000 hours (at 55℃)				
Detecting distance	Long	1.5m	1.5m (0.5 when length measurement mode*1)	0.08m~7m*2	0.5~35m*2	0.8m*2
	Standard			0.05m~4m*2	0.3~25m*2	0.6m*2
	Fast			0.02m~2m*2	0.1m~14m*2	0.2m*2
Spot diameter		φ 2 mm (at 1.5m)	30X2.5 mm (at 1.5m)	φ 9mm (at 7m)*2	φ 45mm (at 35m)	φ 1.3mm (at 0.8m)
Repeatability		0.2mm	0.3mm	0.2mm	0.2mm	0.2mm
Indication lamps		Laser emitting lamp (only projector): green LED, Output lamp (only receiver): orange LED			Laser emitting lamp: green LED, Output lamp: orange LED	
Connection		Connector type				
Ambient illuminance		Incandescent lamp: 3,000lux or less, sun light: 10,000lux or less				
Ambient temperature/humidity		-10 to +55℃ (-20 to +60℃ at stored), 35 to 85%RH (35 to 95% at stored) Not icing, not condensing				
Withstand voltage		1,000VAC/min.				
Vibration resistance		Double amplitude 1.5mm, 10 to 55Hz, each 2 hour in X, Y and Z directions				
Impact resistance		500m/s ² , each 3 time in X, Y and Z directions				
Protective structure		IP67 (IEC standard)				
Case materials		Case: polycarbonate, window: glass, PMMA resin				

Weight (including cable)	Approx.90g	Approx. 115g	Approx.45g		
Accessory			Reflector (RRL-23S)	Reflector (RRL-51S)	

*1. Setting of the response time when measuring mode is available only under Long mode or standard mode.

*2. The attached reflector is used.

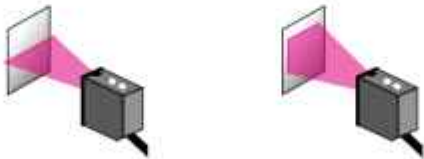
*3. The detecting object is a white paper with 200X200mm.

*4. Spot diameter can be changed with the attachment as an option.

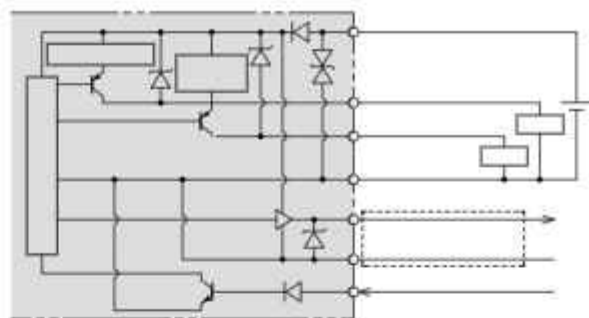
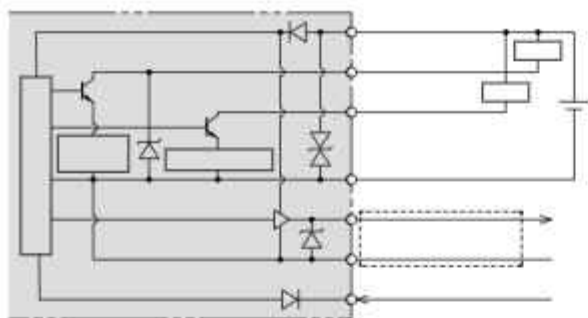
Amplifier

Model No.	LDA-DC	LDA-DA
Power source	12 to 24VDC (+10%, -10%, ripple 10% or less)	
Current consumption	45mA when 24VDC (including sensor head but excluding analog output current)	
Response speed (sensing mode)	60 μ s/500 μ s/2ms (Fast/Standard/Long depending on the sensing mode)	
Output	NPN open-collector output	PNP open-collector output
Control output	100mA 24VDC or less (Residual voltage 1.8V or less)	
Indication lamps	Laser emission lamp: Green, output lamp: orange, teaching lamp: red, channel lamp: green (1/2CH)	
Digital indicators	7-segment LED, 8 digits	
Timer function	ON-delay, OFF-delay, one-shot	
Timer time	1msec to 9sec	
Teaching	1-point, 2-point, zone, transparent detection, length measuring	
Operating mode	Changeover switch (L: Light-ON, D: Dark-ON)	
Analog output	4 to 20mA	
Input/output setting	Outer input setting: 1-point teaching, synchronous input, laser OFF, counter reset Output setting: 2CH output + alarm setting	
Zero reset	Provided	
Initial reset	Provided (Mode is returned to initial setting)	
Connection	Cable 2m long	
Ambient temperature/humidity	-25 to +55°C (-20 to +60°C at stored), 35 to 85%RH (35 to 95% at stored) Not icing, not condensing	
Withstand voltage	1,000VAC/min.	
Insulation resistance	20M Ω (500VDC) or more	
Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz, each 2 hour in X, Y and Z directions	
Impact resistance	500m/s ² , each 3 time in X, Y and Z directions	
Protective structure	IP50 (IEC standard)	
Case material	Body/cover: Polycarbonate	
Weight	Approx.65g (including cable)	
Accessory	Fitting metal	
Mounting	DIN rail mounting	

Lens attachment (as an option)

Appearance	Model No.	Spot diameter	Remark
	FPL-A01		Spot diameter can be changed with exclusive lens attachment.

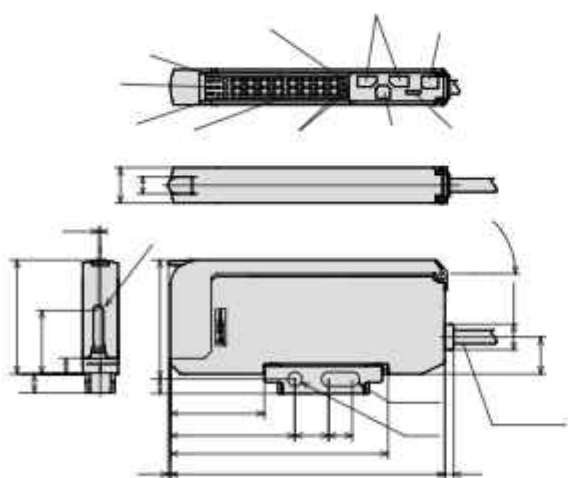
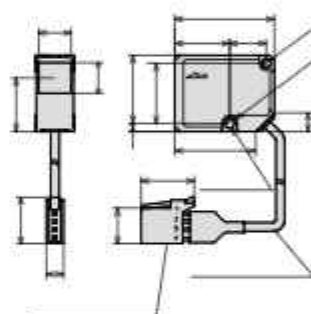
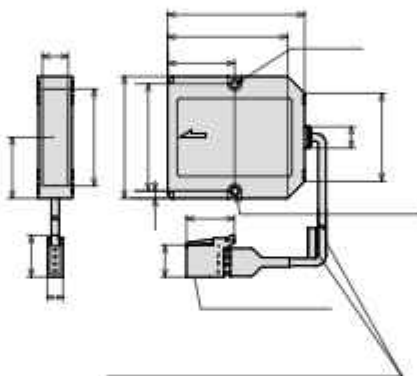
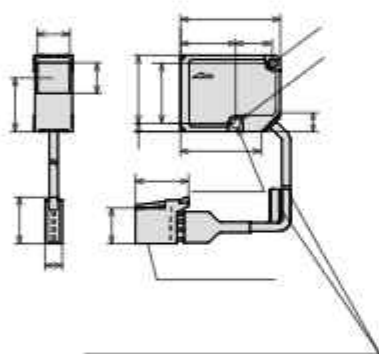
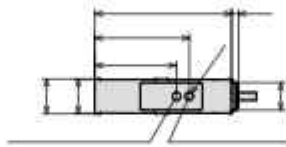




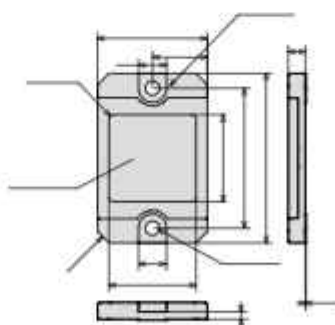
Through-beam type

Length measurement

Coaxial retro-reflection
Coaxial retro-reflection long distance
Coaxial reflection



RRL-23S (RRRL001)
(attached to HDA-70K3)



RRL-51S (RRRL002)
(attached to HDA-350K3)

