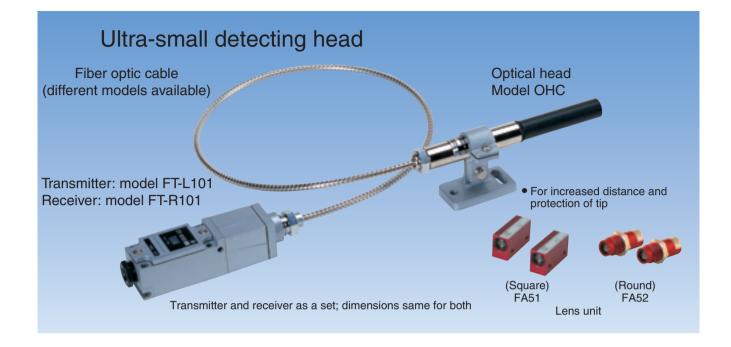
FT101 series



The photo sensor is composed of an optical head and amplifier connected with a fiber optic cable.

This allows installation of the detecting head that contains no electronic components at a high-temperature location and of the amplifier containing electronic components at a remote location.

Features

- Wide power supply range Wide range of power voltage 100-240 VAC.
- Light emission monitor and 3-point level indicator The transmitter is provided with light emission monitor circuit, which outputs alarm signal when light emission stops due to failure, etc. The receiver has 3 LEDs for checking the received light intensity level, offering easy checking of stability and light axis alignment

Type/Price

Туре	Model	Overvie	w		
Amplifier	FT-L101	Transmitter			
Апрішеі	FT-R101	Receiver	Receiver		
	GT205AD		0.5m		
	GT21AD		1m		
	GT22AD		2m		
Fiber	GT23AD	Fiber length	3m		
	GT25AD		5m		
	GT27AD		7m		
	GT210AD		10m		
Optical head	OHC	Heat resistance 200°C, IP 67			
Lens unit	FA51	Square			
	FA52	Round			
Adapter	FT101-AD2	Adapter for OF	IA		

Adapter

 An adapter is required to use an OHA optical head. Adapter for OHA Model FT101-AD2

Simplified combination

Detecting distance: 1.5-2.7 m (depending on fiber) Detecting distance: 12-22 m (depending on fiber) Order example

Product name		Model	Quantity
Sensor	Transmitter	FT-L101	1
main unit	Receiver	FT-R101	1
Lens unit		(Respective model)	2
Fiber		(Respective model)	2

Standard combination

Order example

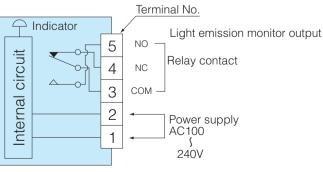
Product name		Model	Quantity
Sensor	Transmitter	FT-L101	1
main unit	Receiver	FT-R101	1
Optica	l head	ОНС	2
Fiber		(Respective model)	2

FT101

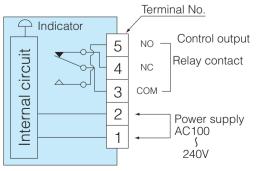
Output speci	-		ance/ope	CIII			al Specification
Transmitter					ET 14	01	
		I FT-L101					
Light source							
Light emission mo	milor oulpul				Relay contact		
	Operation	Power Monitor	ON OFF Normal Abnormal				
		Output	ON OFF			tenes load)	
	Rating			2	250V AC (Resis		
Receiver r					FT-R1		
Output t					Relay contact		
	Rating				250V AC (Resis		
Operation				Lig	ht-ON / Dark-C		
	Response time 20ms max.						
General spec	cification						
			Fiber GT205AD GT21AD		Only Fiber 55cm 55cm	on FA51/52 2.7m 2.7m	on OHC 22m 22m
Detecting distance	-	GT22AD GT23AD GT25AD GT27AD		50cm 45cm 40cm 35cm	2.5m 2.2m 2.0m 1.8m	20m 18m 16m 14m	
			GT210AD		30cm	1.5m	12m
Fiber-optic			50mm				
allowable bendi				10	0.040.140.4		
Power Su					0-240 VAC ±1		
Power consu	-				tter: 2 W max.;		
Indicator –	Transmitter.	Power indicator: Green LED, Monitor indicator: Red LED					
	Receiver.		Power indicator r: Green LED, Monitor indicator: Red LED				
Connec	· · ·		Ter		block (screw: I		
Ambie					cal head, Fiber		
tempera					lifier: -25 +55°C)
Storage temp	perature	-40 to +70°C (Non-condensing)					
Ambient hu					to 85%RH (No		
Ambient		10,000 lx (incandescent lamp)					
Protective st		IP66					
Vibratio	on	10-55 Hz / 1.5 mm amplitude / 2 hours each in 3 direction					
Shoc	k	500 m/s ² / 3 times each in 3 directions					
Dielect	tric	Input/Output - Case, Input - Output					
withstan	ding	AC2000V for 1 minute					
Insulation res	-				20MΩ max. (a	t 500VDC)	
Case ma	terial	Zinc die-cast					
	S	Transmitter. 720g, Receiver.:720g					

Rating/Performance/Specification/Environmental Specification

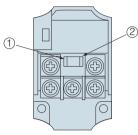
Input/Output Circuit and Connection Transmitter



Receiver

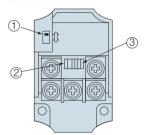


Operation and Switch Setting Transmitter



 ①P.L: power indicator
②OP.L: light emission monitoring operation indicator Illuminated when transmitter is functioning normally.

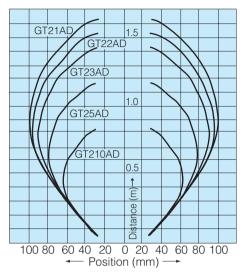
Receiver



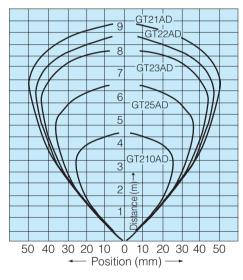
①Light-ON/Dark-ON selector switch Set according to the situation L.ON: signal output when light from transmitter is received. D.ON: signal output when light is blocked. 2 Operation indicator Illuminated when output is activated. ③Level indicator A set of 3 LEDs indicates stability. LEVEL 1: illuminated when light intensity of about twice as much as operation level is detected. LEVEL 2: illuminated when light intensity of about four times as much as operation level is detected. LEVEL 3: illuminated when light intensity of about eight times as much as operation level is detected.

FT101

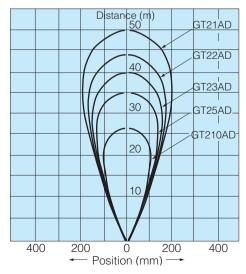
- Directional Characteristics (Typical example)
- Fiber only



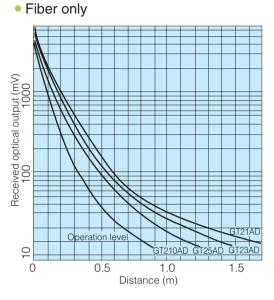
• With lens unit FA51/52 attached



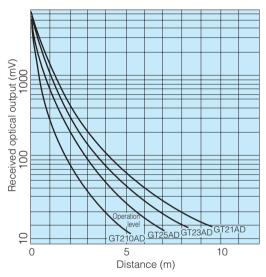
With optical head OHC attached



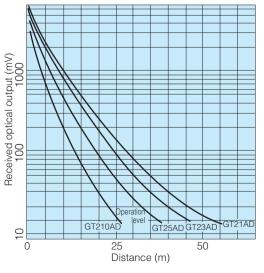
Distance-Output Characteristics (Typical example)



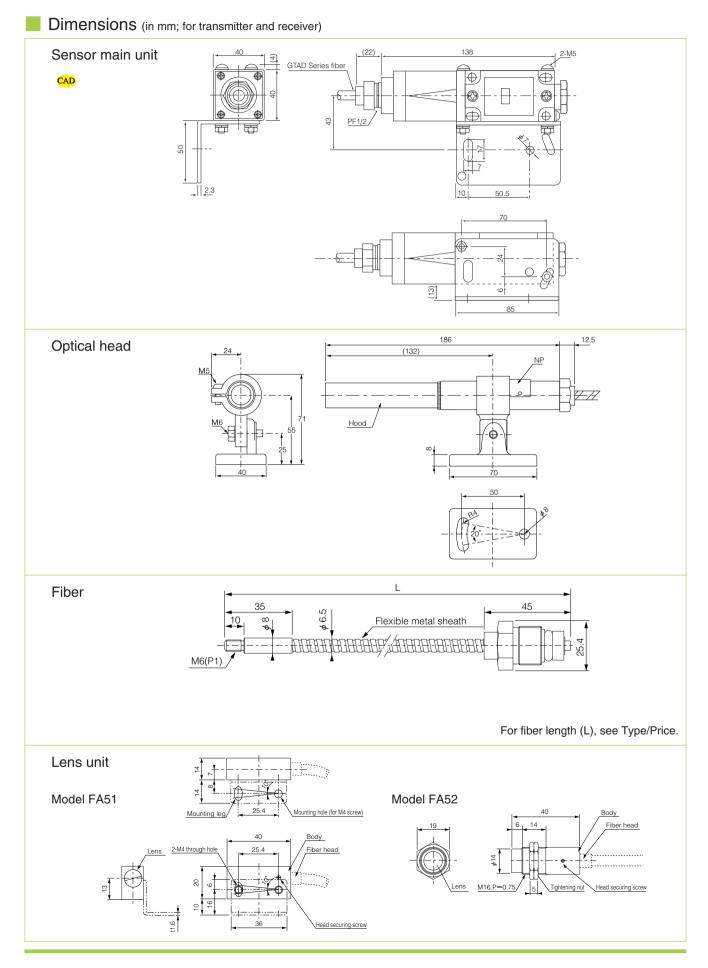
• With lens unit FA51/52 attached



• With optical head OHC attached



FT101



TAKEX