

- Digital indication of sensing information
- Various advanced functions provide for optimum use of the sensor
- Unparalleled "high resolution" allows highly accurate detection
- LCD with backlight for ease of reading
- Longer detecting distance
 (about 2-X that of a conventional Takex model)

Variation

	Type	Mo	del	Light source	Output mode	
	Турс	NPN output	PNP output	Light 30dice		
	Digital display nigh-performance type	F70R	F70RPN	Red LED		
		F70G	F70GPN	Green LED	Open collector	
		F70B	F70BPN	Blue LED	(NPN/PNP)	
		F70W	F70WPN	White LED		

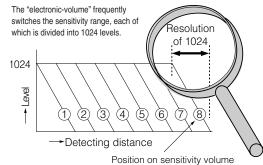
Excellent detection performance

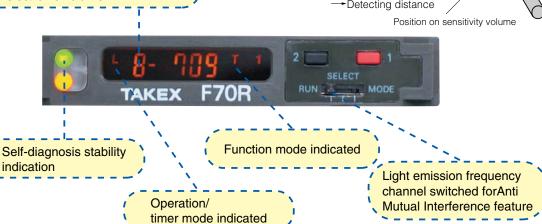
Buitl-in high-resolution provides highly accurate detection

Wide dynamic range and high resolution are achieved at the same time

High resolution is maintained even with a wide dynamic range. The provided electronic volume feature has both a wide dynamic range and high resolution.

(6) 8-position sensing indication with electronic volume

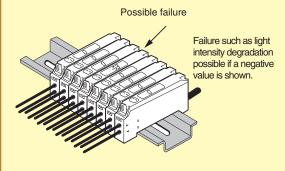




Display function :(beyond received light level)

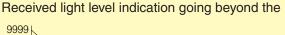
Displacement indication function

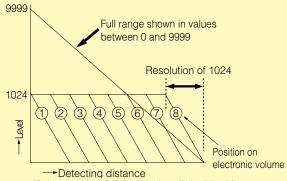
All amplifiers should show "0" with no work.



The value for a deviation (positive or negative) of received light level from the original level is shown at the time of detection, which allows central management of sensors.

Absolute value indication





If the received light level at light blocking is 10 and the level at light reception is 6000, the light blocking / light reception ratio is calculated as 600 times.

supporting high resolution

Enhanced teaching features (sensitivity setting)

Full auto teaching

Simply pressing the button allows easy teaching of an object moving at a high speed.

The teach hold feature allows indication of the maximum and minimum data.

Auto teaching

2-point teaching with and without the presence of work, allows the detection of slight level differences such as the thickness of a piece of work and/or the presence of a film.

Positioning teaching

This feature is ideal for high-accuracy positioning that requires accurate determination of a detecting point.

Maximum sensitivity setting

For applications requiring a "maximum" sensitivity setting such as the detection of work with a through-beam typefiber optic cable. The incorporated extra powerful light would allow use in an adverse environment.

Manual setting

Arbitrary manual increase and decrease of a set-point level allows level setting while checking the operation.

Auto sensing function compensates for adverse environment

The level of received light is constantly monitored and fluctuation is detected and automatically adjusts the activation/deactivation level.

Stable detection at optimum sensitivity is ensured even if the received light level frequently fluctuates due to dust or water drops.

Manual hysteresis setting feature

The hysteresis can be arbitrarily set according to the application, allowing setting of a small hysteresis for severe, high-accuracy detection and a large hysteresis for detection of large variation and prevention of chattering.

Timer functions

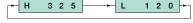
On-delay, off-delay and on-off delay timer functions are provided, which allows for a wide range of detecting and input conditions from the connected devices.

The delay time setting is variable between:

10 ms, 20 ms, 40 ms, 60 ms, 80 ms, 100 ms and 120 ms.

Teach hold function

The sensor has the ability to hold instantaneous data for an object moving at a high rate of speed during full auto teaching. This data is displayed when the teaching has been completed.



(Data for light reception is 325 and for light blocking 120.)

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F70A • F70series

■ Rating/Performance/Specification

	Mod		IPN type	F70AR	F70AG	F70AB	F70AW	F70R	F70G	F70B	F70W	
	IVIO	F	NP type	F70ARPN	F70AGPN	F70ABPN	F70AWPN	F70RPN	F70GPN	F70BPN	F70WPN	
	F	Power	supply	12-24V DC ±10% / Ripple 10% max.								
	Curr		IPN type				39 mA	\ max.				
JCe	consun	nption F	NP type	50 mA max.								
mal	g	Control										
rfor	Output mode	output (*	PNP type	Open collector output / Rating: source current 100 mA (30 VDC max.) / Residual voltage: 2 V or less								
/pe	ndtr	Stability	NPN type					L-:	Rating: sink current 50 n			
Rating/performance	ō	output (PNP type	Open collector output / Rating: source current 50 mA (30 VDC max.) / Residual voltage: 2 V or less								
Ra	0	peration	on mode			L	ight-ON/Dark	-ON selectabl	е			
		7	Timer	(Off delay/disat		е		f delay/on-off	,		
		Timer			Delay time: 40 ms fixed Delay time: selectable between 10, 20, 40, 60, 80, 100 and 120 ms							
	R	Response time		•	ion frequency			Light emiss	ion frequency	channel 1: 50	00 μs max.	
					ion frequency							
		Light source		Red LED	Green LED	Blue LED	White LED	Red LED	Green LED	Blue LED	White LED	
	((wavelength)		(660mm)	(525mm)	(470mm)		(660mm)	(525mm)	(470mm)		
	Indicator		Operation indicator: orange LED / Stability (STB) indicator: green LED									
			play	LCD display				-				
			itch	2 set buttons / Mode selector switch: RUN/SET				2 set buttons / Mode selector switch: RUN/SELECT/MODE				
			ty setting		Full auto teaching / Auto teaching							
			setting input	Set button input				Set button input/external input				
_		nsitivity adju	stment function	Provided (manual sensitivity adjustment)								
Specification		Fund	etions	Anti Mutual Interference featureShort circuit protection feature			Sensor function: AUTO/TEACH/LOCK Auxiliary function: S for manual adjustment of sensitivity and activation level H for manual hysteresis setting V for displacement indication and absolute value indication modes Anti Mutual Interference feature Self-diagnosis feature Short circuit protection feature					
		Mat	erial	Polycarbon				rbonate	onate			
		Connection		Permanently attached cord (outer dimension: dia. 4.8) 0.2sq. 3 core 2 m length Permanently attached cord (outer dimension: dia. 4.8) 0.2sq. 5 core 2 m length								
	Connection		For M8 connector specifications, see p. 23.									
		Ma	ass	Approx. 80 g (including 2-m cord and mounting bracket)								
		Accessory Mounting bracket / Operation manual										

^(*) Avoid the transient condition (0.5 seconds) immediately after power-up for output.

■ Environmental Specification

						
	Ambient light	Incandescent lamp: 10,000 lx / Sunlight: 20,000 lx				
		1-3 adjacent units in operation: -25 - +55 °C				
<u>+</u>	Ambient	4-10 adjacent units in operation: -25 - +50 °C				
neu	temperature	11-16 adjacent units in operation: -25 - +45 °C				
Environment		Storage: -40 - +70 °C (non-freezing)				
n i	Ambient humidity	35-85%RH (non-condensing)				
Ш	Protective structure	IP40				
	Vibration	10-55 Hz / 1.5 mm amplitude / 2 hours each in 3 direction				
	Shock	500 m/s² / 3 times each in 3 directions				

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TAKEX

代理以下品牌:

- ◇日本山武 YAMATAKE/azbil ◇台湾阳明 FOTEK ◇美国霍尼韦尔 HONEYWELL
- ◇日本竹中 TAKEX/SEEKA ◇日本大仓 OHKURA ◇ASEE 安圣光纤线专业生产厂
- ◇日本基恩斯 KEYENCE ◇日本理研 RIKEN 光幕/镜片◇台湾 moujen

记录仪:大仓 OHKURA, 山武 YAMATAKE 千野 CHINO,神港 SHINKO,东邦 TOHO,横河 YOKOGAWA 安全光幕:安圣 ASEE, SSG20 对射光幕, 神视 SUNX,阳明 fotek, 理研 RIKEN 鲜光 SUN KWANG 光纤放大器:山武 YAMATAKE 竹中 TAKEX 神视 SUNX,基恩斯 KEYENCE 阳明 fotek 奥托尼克斯

主营产品:安全光幕、记录仪、光纤放大器、光纤线、接近开关、光电开关、行程开关、计数器、计时器、温控器、固态继电器、热电偶、PT100 热电阻、燃烧保护继电器、火焰检测器、PLC、变频器、触摸屏、步进电机及驱动器、各国进口品牌记录纸、色带、记录笔

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