



- Fully open terminal block for easy wiring
- Compatible with a broad range of power supply voltages
  - Polarized reflector for stable detection of mirrorlike objects
  - Red LED for easy alignment
  - Improved resistance to noise with original photo IC

📕 Туре						
Туре	Detecting distance		Model	Timer feature	Operation mode	Output mode
			NA-T20R			
	20	m	NA-T20RF	Provided		
		nce ted	NA-T20RA※		Light ON/	
	10m	rfere egra	NA-T20RB※		Dark ON	
Through beam		Anti interference filter integrated	NA-T20RFA※	Provided	selectable	
Deam		Anti filte	NA-T20RFB※		(Models with "F") at the end of the	Relay output
			NA-T30		model No. is Light ON/Dark	1a
	30	m	NA-T30F	Provided	ON and timer function	
			NA-M7R	_	selectable	
Polarized retroreflective	0.03-7m		NA-M7RF	Provided		
	1m		NA-R10	_		
Diffuse reflective			NA-R10F	Provided		

\* Interference between models is prevented by using models with "A" and "B" at the end of model Nos in combination.

### Optional Parts

Туре	Model	Applicable model	Description	
Pinhole sticker	AP35	NA-T20R NA-T20RF NA-T30 NA-T30F	Detecting distance with stickers attached to both transmitter and receiver of NA-T20R · NA-T20RF $\phi$ 3mm······1m $\phi$ 5mm······3.5m	One sticker contains $\phi$ 3 and $\phi$ 5 holes. Two stickers required for attachment to both transmitter and receiver.
Reflector	K-71	NA-M7R	Detecting distance: 0.03-3.5m	
Bushing rubber	S-510G JV7	NA-M7RF All models	Detecting distance : 0.1-4m Compatible cable diameter: 6-8 mm	

Mounting brackets are accessories.

TAKEX

Ratir	ng/Per	formance	Specific	ation						
Тур	e	Basic				Multifunctional (with timer)				
Mod	el	NA-T30	NA-T20R	NA-M7R	NA-R10	NA-T30F	NA-T20RF	NA-M7RF	NA-R10F	
Detection	tection method Through beam		h beam	Polarized retroreflective	Diffuse reflector	Throug	h beam	Polarized retroreflective	Diffuse reflector	
Detecting of	tecting distance 30m or less 20m or less		0.03-7m or less (with reflector model K-7)	1m or less (200x200mm) (white drawing paper)	30m or less	20m or less	0.03-7m or less (with reflector model K-7)	1m or less 200x200mm white drawing paper,		
Detection	Detection object		Opaque object of dia. 22 mm min		Opaque translucent	Opaque of dia. 22 mm min		Mirror-like opaque	Opaque translucent	
Power s	upply	24-240VAC/DC ±10% 50/60Hz								
Power	Transmitter	1.8W or less	s 1.5W or less 2 W or less		r loco	1.8W or less	1.5W or less	2 W o	r loco	
consumption	Receiver	2 W or less	2 W or less.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11888	2 W or less.	2 W or less.	2 ** 0	11688	
Output r	node					1a / Ratin : 3 A C or less : resi				
Operation mode Light ON/Dark ON selectable.				÷.	<ul> <li>Light ON/Dark ON selectable</li> <li>Timer function selectable Selectable between on-delay, off-delay, one-shot and timer disabled (with switch) Delay time: 0.1-5 s</li> </ul>					
Response time 10					10ms	s or less				
Hyster	esis				10% or less				10% or less	
Operating	angle	3° (at re	eceiver)	30° (at reflector)		3° (at re	(at receiver)° 30° (at reflected			
Light so (wavele		Infrared LED (880 nm) Red LED (700 nm)			Infrared LED (880 nm)	Infrared LED (880 nm)	I RealeD(/UUnn)		Infrared LED (880 nm)	
	Transmitter	Power indicator (orange LED)		Operation	indicator	Power indicator (orange LED)		Operation	indicator	
Indicator Receiver		Operation indica	tor (orange LED)	orange l		Operation indicator (orange LED) (orange		(orange L	ED)	
Volume	(VR)				Sensitivity Adjustment	Delay time adjustment Adjustm			Sensitivity Adjustment Delay time adjustmeni	
Switch(	SW)	FUNCTION.SW provided OND.: on-delay OsideLight ON OsideDark				)ark ON )ark ON				
Mater	ial			Lens: acrylic	Case: heat re	se: heat resistant ABS / Cover: acrylic				
Connec	ction			-	Ferminal block	(Screw: M3.5	j)			
	Transmitter	Approx. 170g	Approx. 150g	A	170 a	Approx. 170g	Approx. 150g	A	170-	
Weight	Receiver	Approx. 170g	Approx. 170g	Appro	. 170g	Approx. 170g	Approx. 170g	g Approx. 170g		
Acces	sory			reflector model K-7	Operation r	manual, Mount	ing bracket	reflector model K-7		

## Rating/Performance/Specification

The detecting distance and detection object of retroreflective types varies, depending on reflector types combined with the sensor. The detecting distance is the range which you can set for the reflector. The sensor can detect an object even in extremely short range.

# Environmental Specification

Ambient light         10,000 lx or less           Ambient temperature         -25 - +55 °C (non-freezing)           Ambient humidity         35-85%RH (non-condensing)
Ambient humidity 35-85% BH (non-condensing)
Protective structure IP66
Vibration 10-55 Hz / 1.5 mm double amplitude / 2 hours each in 3 direction
Shock 100 m/s² / 3 times each in 3 directions
Dielectric withstanding 1,500 VAC for 1 minute
Insulation resistance 500 VDC, 100 MΩ or higher

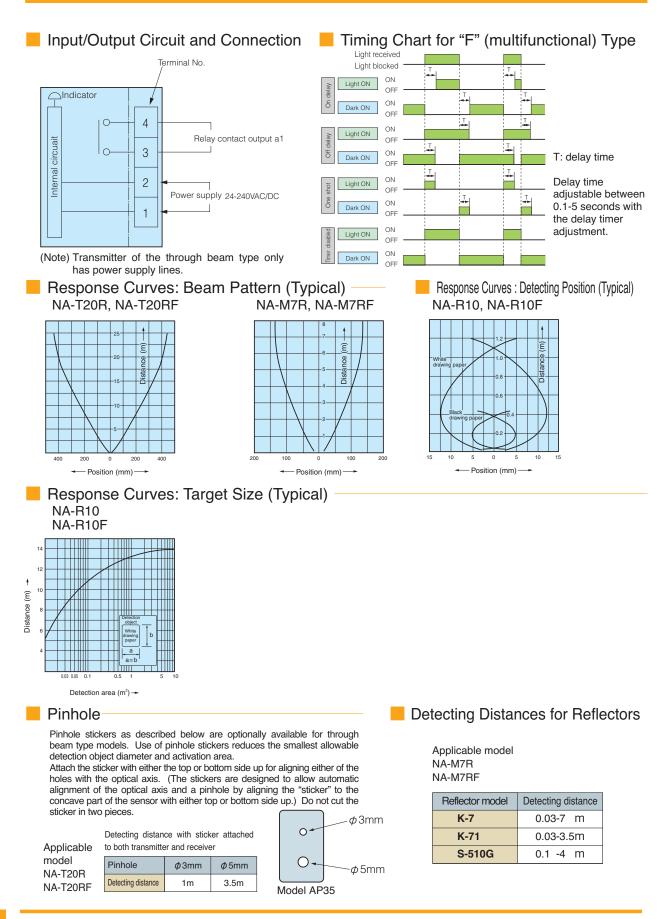
#### • Compatible to DIN-PG11

The ground hub may be made to conform to DIN PG11. Add-PG at the end of the model No. for ordering.



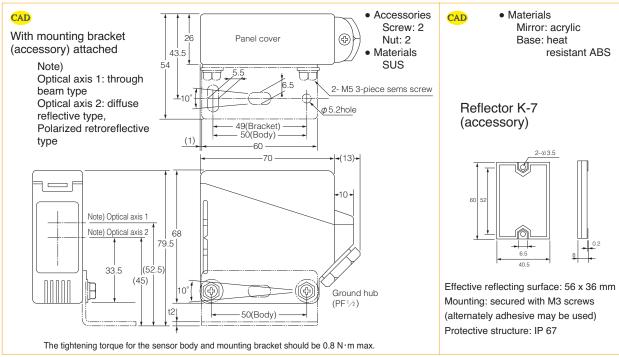
#### • Ground hub bushing rubber

Standard models are provided with linings compatible with cables of 9-11 mm in diameter. When using cables of 6-8 mm, use optional bushings.

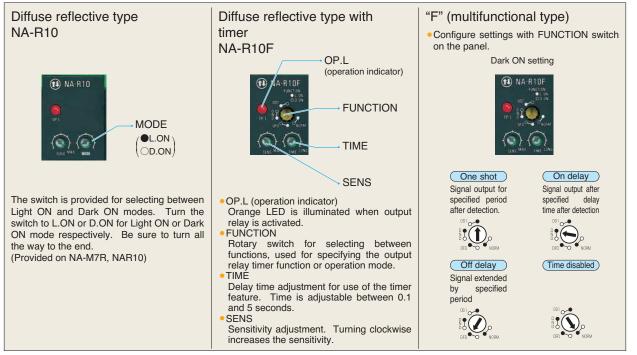


TAKEX

### Dimensions (in mm)



# Panel layout and functions



TAKEX