imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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LASER SENSORS

PHOTOELECTRIC SENSORS

MICRO PHOTOELECTRIC SENSORS LIGHT CURTAINS/ SAFETY COMPONENTS PRESSURE/ FLOW SENSORS INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

> SENSOR OPTIONS

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

> LASER MARKERS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

PLC

SIMPLE WIRE-SAVING

UNITS WIRE-SAVING SYSTEMS

Ultra-slim Body Picking Sensor **NA1-PK5** series **NA1-5** series

Related Information

General terms and conditions...... F-7 Glossary of terms...... P.1455~ Sensor selection guide P.461~
 General precautions P.1458~



Even a slim hand is detectable by the 25 mm 0.984 in pitch beam area sensor

10 mm 0.394 in thick: half the thickness of conventional models

Space saving is now possible. The ultra-thin design does not obstruct picking operation.

MACHINE VISION SYSTEMS UV CURING SYSTEMS

> Selection Guide

Slim Body

Other Products

NA1-PK5/ NA1-5 NA1-PK3





Cable can be freely arranged in any position

BASIC PERFORMANCE

Long sensing range: 3 m 9.843 ft NA1-5

Its long sensing range of 3 m 9.843 ft is sufficient for confirming access to a parts shelf.

Clearly visible job indicators

Bright, easy-to-see job indicators, 55 mm 2.165 in in length, have been incorporated into both the emitter and the receiver.

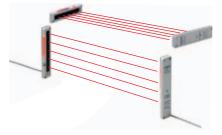
This sensor is optimal for picking. With the $\ensuremath{\text{NA1-PK5}}$, we've enhanced visibility even further by using 8 orange LED lights.



FUNCTIONS

Two unit installation is possible

Sensor units can now be set to different light emission frequencies in order to prevent mutual interference. Two units can now be operated in a side-by-side configuration without interference, for problem-free detection over wider areas.



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SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES LASER MARKERS

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION

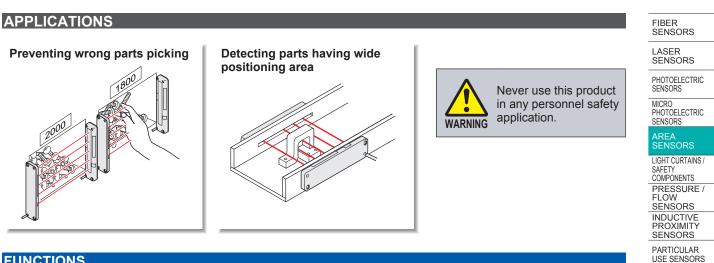
FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

PLC

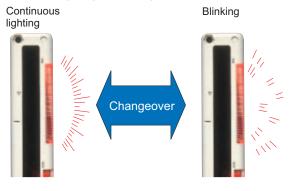
SYSTEMS



FUNCTIONS

Lighting pattern selectable

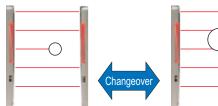
The job indicator operation can be selected as either continuous lighting or blinking.



Selectable detection operation

Either of the two different detection operations may be selected in order to suit the particular application. Sensor units can be set to detect the interruption of 1 or more beam channels, or can be set to detect only the interruption of 2 or more beam channels.

Single beam interruption



All opaque bodies with ø35 mm ø1.378 in or greater will be detected. Double beam interruption

The accidental passage of small objects through the beam axis will not trigger detection, yet the operator's hands will always be accurately detected. This function is also useful when small objects regularly interrupt the beam axis.

Selection Guide
Slim Body
Picking

Other Products

NA1-PK5/ NA1-5 NA1-PK3

ORDER GUIDE

Туре	Appearance	Sensing range (Note)	Model No.	Output
High-luminous job indicator type		0.1 to 1.2 m 0.328 to 3.937 ft	NA1-PK5	NPN open-collector transistor
High-lu job indi type	Sensing height 100 mm 3.937 in	(0.05 to 0.5 m 0.164 to 1.640 ft) when set to SHORT.	NA1-PK5-PN	PNP open-collector transistor
Long sensing range type	Beam pitch	0.2 to 3 m 0.656 to 9.843 ft	NA1-5	NPN open-collector transistor
Long s range t	5 beam channels 25 mm 0.984 in 1	$\left(\begin{array}{c} 0.05 \text{ to } 1 \text{ m } 0.164 \text{ to } 3.281 \text{ ft} \\ \text{when set to SHORT.} \end{array}\right)$	NA1-5-PN	PNP open-collector transistor

Notes: 1) The sensing range is the possible setting distance between the emitter and the receiver.

2) The model No. with "P" shown on the label affixed to the product is the emitter, "D" shown on the label is receiver.

NA1-PK5(-PN): 1.2 m 3.937 ft Receiver cannot be Actual sensing range of the sensor --placed in this range NA1-PKS(-PN): 0.1 m 0.326 ft (0.05 m 0.164 ft when set to SHORT) NA1-S(-PN): 0.2 m 0.656 ft (0.05 m 0.164 ft when set to SHORT) (0.5 m` when set to SHORT NA1-5(-PN): 3 m 9.843 f Setting range of the receiver 1 m 3.281

Emitter Receiver

Receiver

when set to SHORT

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

ARE/ SENSORS

LIGHT CURTAINS/ SAFETY COMPONENTS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

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LASER MARKERS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS MACHINE VISION SYSTEMS UV CURING SYSTEMS

PLC

ORDER GUIDE

5 m 16.404 ft cable length type

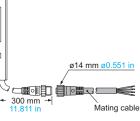
5 m 16.404 ft cable length type (standard: 2 m 6.562 ft) is also available. Model No.: NA1-5-C5

Pigtailed type

Pigtailed type is also available. When ordering this type, suffix "-J" to the model No. Please order the mating cable separately. (e.g.) Pigtailed type of NA1-PK5-PN is "NA1-PK5-PN-J".

• Mating cable (2 cables are required.)

-	Model No.	Description	
	CN-24-C2	4-core, cable length 2 m 6.562 ft	
-	CN-24-C5	4-core, cable length 5 m 16.404 ft	J.



S-LINK direct hook-up picking sensor

SL-N15 can be hooked up to the sensor & wire-saving link system S-LINK. Refer to p.1033~ for the sensor & wire-saving link system S-LINK.

Model No.	Description	
SL-N15	Sensing range: 0.2 to 3 m 0.656 to 9.843 ft (0.05 to 1 m 0.164 to 3.281 ft when the switch is set to SHORT) Beam pitch: 25 mm 0.984 in Sensing height: 100 mm 3.937 in Sensing object: ø35 mm ø1.378 in or more opaque object	It is a parts-taking verification sensor with five sensing beams and can be hooked up to the S-LINK cable without any interface. Both the emitter and the receiver are incorporated with bright orange LED job indicators that are easily visible to the operator.





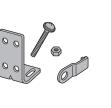
NA1-PK5/ NA1-5 NA1-PK3

OPTIONS

Designation	Model No.	Description	
Sensor	MS-NA1-1	Four bracket set Four M4 (length 15 mm 0.591 in) screws with washers, eight	
mounting bracket	MS-NA2-1	nuts, four hooks, four spacers and eight M4 (length 18 mm 0.709 in) screws with washers are attached. (Spacers are not attached with MS-NA1-1 .)	
Sensor	MS-NA3	It protects the sensor body. Two silver bracket set [Four M4 (length 15 mm 0.591 in) screws with washers, and four nuts are attached.]	
protection bracket	MS-NA3-BK	It protects the sensor body. Two black bracket set [Four M4 (length 15 mm 0.591 in) screws with washers, and four nuts are attached.]	
Slit mask		The slit mask restrains the amount of beam emitted or received. (Seal type)	
Y-shaped connector	SL-WY 5 pcs. per set	This connector is able to combine the cables of receiver and	

Sensor mounting bracket

• MS-NA1-1

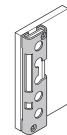


M4 screws with washers, nuts and hooks are attached.

Sensor protection bracket

- MS-NA3
- MS-NA3-BK

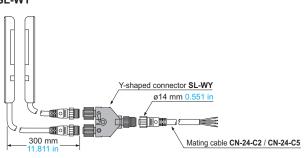




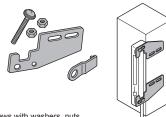
M4 screws with washers, and nuts are attached.

Y-shaped connector

• SL-WY



• MS-NA2-1



M4 screws with washers, nuts, hooks and spacers are attached.

Slit mask

• OS-NA1-5



Since the slit mask is of seal type, it can be used by sticking to the detection surface.

Take care that the sensing range will be reduced when the slit mask is used. Please contact our office for details.

INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS SENSORS SENSORS SIMPLE WIRESAVING SYSTEMS MEASURE-MENT SENSORS STATIC ELECTRICITY PREVENTION DEVICES

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FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE / FLOW SENSORS

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS FA COMPONENTS

LASER MARKERS

PLC

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

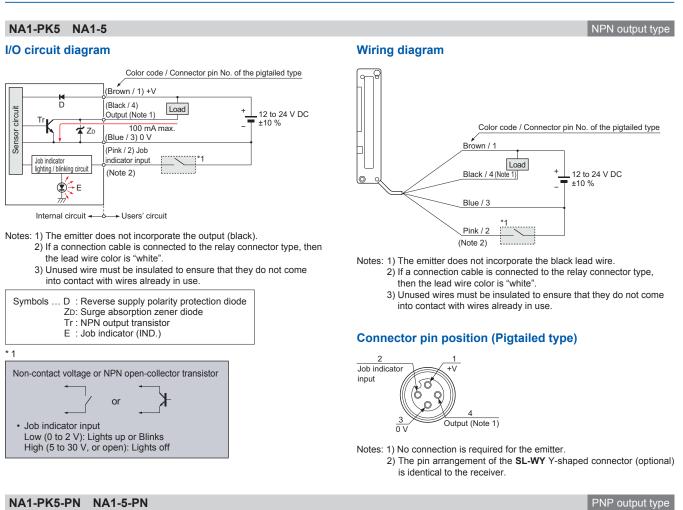
Selection Guide
Slim Body
Picking
Other Products

NA1-PK5/ NA1-5	
NA1-PK3	

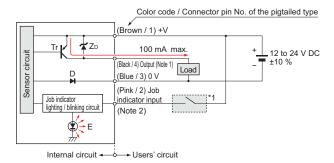
SPECIFICATIONS

SENSORS							
LASER SENSORS	ORS		NPN	putput	PNP	putput	
PHOTO- ELECTRIC SENSORS	Туре		High-luminous job indicator type	Long sensing range type	High-luminous job indicator type	Long sensing range type	
MICRO	Item	n Model No.	NA1-PK5	NA1-5	NA1-PK5-PN	NA1-5-PN	
PHOTO- ELECTRIC SENSORS	Sen	sing height		100 mm	3.937 in		
AREA SENSORS	Sen	sing range (Note 2)	0.1 to 1.2 m 0.328 to 3.937 ft (0.05 to 0.5 m 0.164 to 1.640 ft when set to SHORT)	0.2 to 3 m 0.656 to 9.843 ft (0.05 to 1 m 0.164 to 3.281 ft when set to SHORT)	0.1 to 1.2 m 0.328 to 3.937 ft (0.05 to 0.5 m 0.164 to 1.640 ft when set to SHORT)	0.2 to 3 m 0.656 to 9.843 ft (0.05 to 1 m 0.164 to 3.281 ft when set to SHORT)	
LIGHT CURTAINS /	Bear	m pitch	25 mm 0.984 in				
SAFETY COMPONENTS	Num	ber of beam channels	5 beam channels				
PRESSURE / FLOW	Sens	sing object	ø35 mm ø1.378 in or more opaque object (completely beam interrupted object)				
FLOW SENSORS	Sup	oly voltage		12 to 24 V DC ±10 % Ripple P-P 10 % or less			
INDUCTIVE PROXIMITY SENSORS	Pow	er consumption (Note 3)	Emitter: 0.5 W or less,	Receiver: 0.8 W or less	Emitter: 0.6 W or less,	Receiver: 0.9 W or less	
PARTICULAR USE SENSORS SENSOR OPTIONS	Outp	put	 Residual voltage: 1 V or le 	r less (between output and 0 V)	Residual voltage: 1 V or le	100 mA r less (between output and +V) ss (at 100 mA source current) less (at 16 mA source current)	
SIMPLE		Utilization category		DC-12 c	or DC-13		
WIRE-SAVING UNITS WIRE-SAVING		Output operation	ON	or OFF when one or more beam or OFF when two or more beam ctable by operation mode switch	channels are interrupted,		
SYSTEMS		Short-circuit protection			oorated		
MEASURE- MENT SENSORS	Res	conse time	10 ms or less (when the	· ·	in Light state: 30 ms or less, in D	ark state: 13 ms or less)	
SENSORS STATIC ELECTRICITY PREVENTION DEVICES		Emitter	Power indicator: Green LED (lig Job indicator: Orange LED (ligh indicator input is Low, lighting p	ts up or blinks when the job	Power indicator: Green LED (ligh Job indicator: Orange LED (ligh indicator input is High, lighting p	ts up or blinks when the job	
LASER MARKERS	Ś		mode switch) Operation indicator: Red LED (I	ights up when one or more	mode switch) Operation indicator: Red LED (I	ights up when one or more	
PLC	Indicators		beam channels are interrupted, channels or more are interrupte interruption mode)		beam channels are interrupted, I channels or more are interrupted interruption mode)		
HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS		Receiver	Stable incident beam indicator: beam channels are stably recei Job indicator: Orange LED (ligh indicator input is Low, lighting p mode switch)	ved) ts up or blinks when the job	Stable incident beam indicator: beam channels are stably recei Job indicator: Orange LED (ligh indicator input is High, lighting p mode switch)	ved) ts up or blinks when the job	
FA COMPONENTS	Interference prevention function			Incorp	orated		
		Pollution degree	3 (Industrial environment)				
MACHINE VISION SYSTEMS	ų.	Protection		IP62	(IEC)		
UV	tanc	Ambient temperature	-10 to +55 °C +14 to +131 °F (No dew condensation or icing allowed), Storage: -20 to +70 °C -4 to +158 °F				
CURING SYSTEMS	resistance	Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH				
	ntal r	Ambient illuminance	Incandescent light: 3,000 & at the light-receiving face				
	nen	EMC	EN 60947-5-2				
	Environmer	Voltage withstandability		,	terminals connected together an		
	Env	Insulation resistance			I supply terminals connected toge		
Selection Guide		Vibration resistance	10 to 150 Hz frequency, 0.75 mm 0.030 in amplitude in X, Y and Z directions for two hours each				
Slim Body	F == 1	Shock resistance		/	X, Y and Z directions for three tim		
Picking		ting element) nm 0.037 mil, synchronized sca		
Other Products	Mate				cover: Acrylic, Indicator cover: A	-	
11000010	Cab	le extension		· · · · ·	sistant cabtyre cable, 2 m 6.562 to both emitter and receiver with 0.3	<u> </u>	
NA1-PK5/ NA1-5	040		Net weight:	Net weight:	Net weight:	Net weight:	
NA1-PK3	Wei	ght	Emitter 80 g approx. Receiver 85 g approx. Gross weight: 270 g approx.	Emitter 70 g approx. Receiver 80 g approx. Gross weight: 270 g approx.	Emitter 80 g approx. Receiver 85 g approx. Gross weight: 270 g approx.	Emitter 70 g approx. Receiver 80 g approx. Gross weight: 270 g approx.	
	Notes	 conditions used were a 2) The sensing range is the the receiver. 3) Obtain the current consumption = (e.g.) When the supply the current consumption 	onditions have not been specifie in ambient temperature of +23 °C ie possible setting distance betwe sumption by the following equation Power consumption ÷ Supply ve voltage is 12 V, sumption of the emitter is: 0.042 A = 42 mA	C +73.4 °F. Receiver of placed in the emitter and placed in the placed i	Actual sensing range of the NA1-PK5(-PN): 0.1 m 0.322 ft (0.05 m 0.164 ft MA1-PK5(-PN): 0.2 m 0.656 ft (0.05 m 0.164 ft MA1-5(-PN): 0.2 m 0.656 ft MA1-5(-PN): 0.2 m 0.	when set to SHORT) when set to SHORT)	

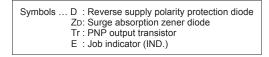
I/O CIRCUIT AND WIRING DIAGRAMS



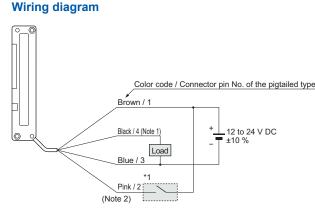
I/O circuit diagram



- Notes: 1) The emitter does not incorporate the output (black).
 - 2) If a connection cable is connected to the relay connector type, then the lead wire color is "white".
 - 3) Unused wire must be insulated to ensure that they do not come into contact with wires already in use.



* 1 Non-contact voltage or PNP open-collector transistor 10 Job indicator input High (4 V or more): Lights up or Blinks Low (0 to 0.6 V, or open): Lights off





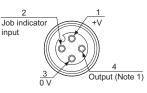
NA1-PK NA1-5

NA1-PK3

Notes: 1) The emitter does not incorporate the black lead wire.

- 2) If a connection cable is connected to the relay connector type, then the lead wire color is "white"
- 3) Unused wires must be insulated to ensure that they do not come into contact with wires already in use.

Connector pin position (Pigtailed type)



Notes: 1) No connection is required for the emitter.

2) The pin arrangement of the SL-WY Y-shaped connector (optional) is identical to the receiver.

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FIBER SENSORS

LASER SENSORS

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ELECTRIC MICRO PHOTO-ELECTRI SENSOR

LIGHT CURTAINS / SAFETY

COMPONENTS

PRESSURE

FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-

MENT SENSORS STATIC ELECTRICITY PREVENTION

DEVICES

PLC

HUMAN

ENERGY

MACHINE INTERFACES

ENERGY CONSUMPTIO VISUALIZATIO COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

LASER MARKERS

SENSING CHARACTERISTICS (TYPICAL) FIBER SENSORS



Selection Guide

Other Products

NA1-PK5/ NA1-5

NA1-PK3

Slim Body



Parallel deviation

Vertical direction

Receiver

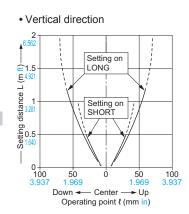
Horizontal direction

Receiver

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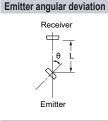
-_ _

Emitter



Angular deviation

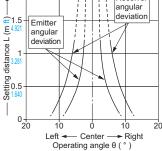
Emitter



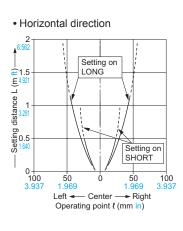
Receiver angular deviation



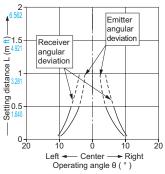
· Setting on LONG 2 6.562 Emitter



Receiver

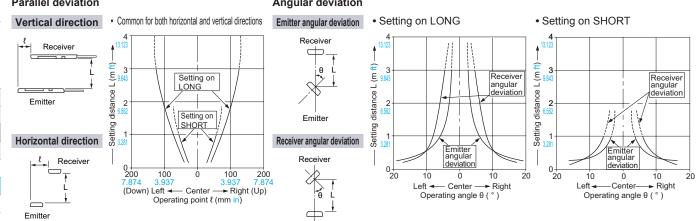


Setting on SHORT



NA1-5 NA1-5-PN

Parallel deviation



Angular deviation

Emitter

LASER SENSORS

PHOTO-ELECTRIC SENSORS

PRECAUTIONS FOR PROPER USE

· Never use this product as a sensing device for personnel protection.

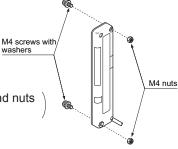
 For sensing devices to be used as safety devices for press machines or for personnel protection, use products which meet standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each

region or country. If this product is used as a sensing device for

personnel protection, death or serious body injury could result.

· For a product which meets safety standards, use the following products. Type4: SF4C series (p.531~) Type2: SF2C series (p.551~)

- Mounting
- · Use M4 screws with washers and M4 nuts. The tightening torque should be 0.5 N·m or less.

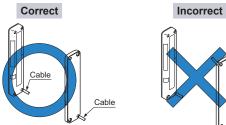


Purchase the screws and nuts separately.

Orientation

· The emitter and the receiver must face each other correctly. If they are set upside down, the sensor does not work.

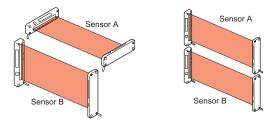
washers



Interference prevention function

· By setting different emission frequencies, two units of the sensor can be mounted close together, as shown in the figure below.

The switches must be set with the power supply off. The operation mode does not change if the switch setting is changed with the power supplied.



	Operation mode switch		
	Emitter	Receiver	
Sensor A (FREQ. A)	FREQ. A FREQ. B	FREQ. A FREQ. B	
Sensor B (FREQ. B)	FREQ. A	FREQ. A	

Refer to p.1458~ for general precautions.

LONG / SHORT selection switch (incorporated on the emitter)

· Select the switch setting according to the setting distance between the emitter and the receiver as given below. The switches must be set with the power supply off. The operation mode does not change if the switch setting is changed with the power supplied.

Setting distance	Operation mode switch
0.05 to 0.5 m 0.164 to 1.640 ft [NA1-PK5(-PN)] 0.05 to 1 m 0.164 to 3.281 ft [NA1-5(-PN)]	
0.5 to 1.2 m 1.640 to 3.937 ft [NA1-PK5(-PN)] 1 to 3 m 3.281 to 9.843 ft [NA1-5(-PN)]	

Selection of output operation

· The output operation mode is selected by the operation mode switch on the receiver.

The switches must be set with the power supply off. The operation mode does not change if the switch setting is changed with the power supplied.

Output operation	Operation mode switch
ON when one or more beam channels are interrupted (OFF when all beam channels are received).	SINGLE DOUBLE
OFF when one or more beam channels are interrupted (ON when all beam channels are received).	
ON when any two or more beam channels are interrupted.	SINGLE DOUBLE
OFF when any two or more beam channels are interrupted.	SINGLE DOUBLE

Job indicator operation selection

- · Lighting / Blinking is selected by the operation mode switch on the emitter and the receiver.
- The switches must be set with the power supply off. The operation mode does not change if the switch setting is changed with the power supplied.

	Operation mode switch		
	Emitter	Receiver	
Lighting	LIGHT FLASH	LIGHT FLASH	
Blinking	LIGHT FLASH	LIGHT FLASH	

Others

· Do not use during the initial transient time (0.5 sec.) after the power supply is switched on.

COMPONENTS PRESSURE FLOW SENSORS INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS SENSOR OPTIONS SIMPLE WIRE-SAVING UNITS WIRE-SAVING SYSTEMS MEASURE-MENT SENSORS STATIC ELECTRICITY PREVENTION DEVICES LASER MARKERS PLC HUMAN MACHINE INTERFACES

> FA COMPONENTS MACHINE VISION SYSTEMS

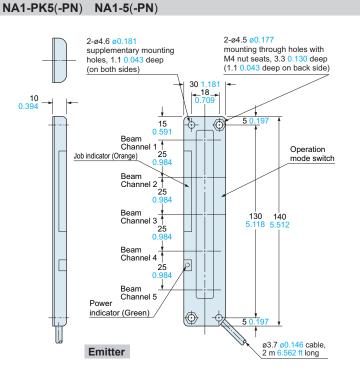
UV CURING SYSTEMS

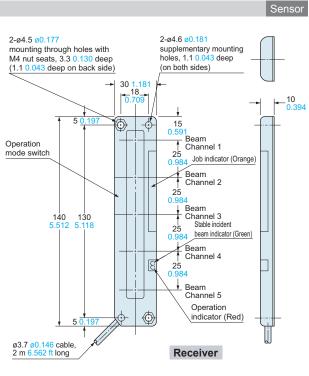
Selection Guide

Slim Body

Other Product:

NA1-PK NA1-PK3 481



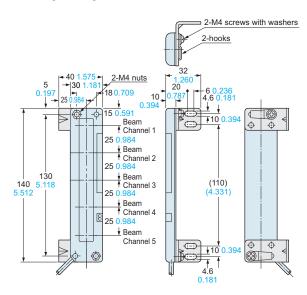


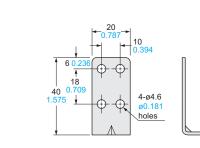
MS-NA1-1

Sensor mounting bracket (Optional)



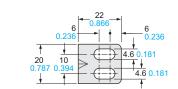
Mounting drawing with the receiver





DIMENSIONS (Unit: mm in)





t 2 t 0.079

NA1-PK5/ NA1-5 Material: Cold rolled carbon steel (SPCC) NA1-PK3

Four bracket set

(Uni-chrome plated)

Four M4 (length 15 mm 0.591 in) screws with washers, eight nuts, four hooks and eight M4 (length 18 mm 0.709 in) screws with washers are attached. [M4 (length 18 mm 0.709 in) screws with washers are not used for NA1-PK5/5 series.] The CAD data in the dimensions can be downloaded from our website.

LASER SENSORS

PHOTO ELECTRIC

MICRO PHOTO-ELECTRIC SENSORS

REA ENSORS

LIGHT CURTAINS / SAFETY

COMPONENTS

PRESSURE

FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR

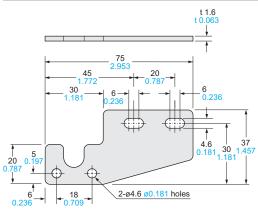
USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

DIMENSIONS (Unit: mm in)

MS-NA2-1



Material: Cold rolled carbon steel (SPCC) (Uni-chrome plated)

Four bracket set

15 0.591

Four M4 (length 15 mm 0.591 in) screws with washers, eight nuts, four hooks, four spacers and eight M4 (length 18 mm 0.709 in) screws with washers are attached.

17

25 0

250

25 0

250

27 063

4.5

5-ø14 🤇

9

9---

<u>[</u>

_31

13.7 10.5 t1.6t0

For receiver

0.35

12.1

29

7

0 276

130 144

10.5 0.413

Two bracket set

2-ø9 ø0.354

7.

7.

23 0

57

7.1 72.5

MS-NA3 MS-NA3-BK

5 0.197

ł

ł

17 0.669

4.35

4

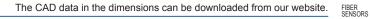
15

46 17 0.669

2-ø4.8 ø0.189

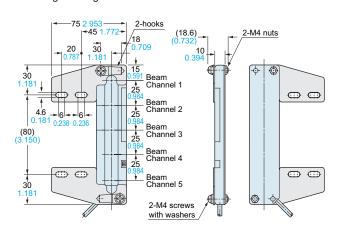
7.1

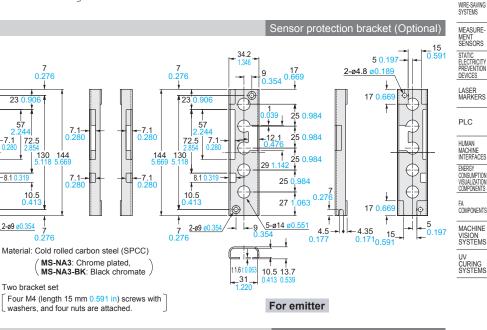
0.28



Sensor mounting bracket (Optional)

Assembly dimensions Mounting drawing with the receiver



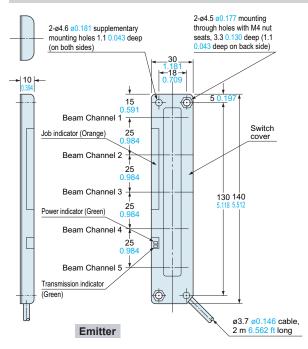


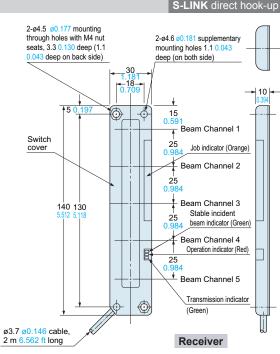
SL-N15

Ó

5 0.197

-11-





S-LINK direct hook-up area sensor

Selection Guide
Slim Body
Picking
Other Products

NA1-PK5 NA1-5 NA1-PK3