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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.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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491

40 mm 1.575 in Beam Pitch General Purpose Area Sensor **NA40** SERIES



FIBER SENSORS

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

SENSOR OPTIONS

MEASUREMENT SENSORS STATIC ELECTRICITY PREVENTION DEVICES LASER MARKERS

SIMPLE WIRE-SAVING

UNITS WIRE-SAVING SYSTEMS

PLC

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Selection Guide Slim Body Picking

NA40







Sensor selection guide..... P.461~

Korea's S-mark..... P.1506

Make sure to use light curtains when using a sensing device for personnel protection. Refer to p.495~ for details of

panasonic.net/id/pidsx/global

Slim and smart

SPECIFICATIONS

The CAD data in the dimensions can be downloaded from our website.

\swarrow		Number of beam channels	4	6	8	10	12	14	16	20	24
		Model No.	NA40-4	NA40-6	NA40-8	NA40-10	NA40-12	NA40-14	NA40-16	NA40-20	NA40-24
Iten	1 🔪	With spatter protection hood	NA40-4-H	NA40-6-H	NA40-8-H	NA40-10-H	NA40-12-H	NA40-14-H	NA40-16-H	NA40-20-H	NA40-24-H
Sen	sing height		120 mm 4.724 in	200 mm 7.874 in	280 mm 11.024 in	360 mm 14.173 in	440 mm 17.323 in	520 mm 20.472 in	600 mm 23.622 in	760 mm 29.921 in	920 mm 36.221 in
Sensing range		5 m 16.404 ft									
Beam pitch			40 mm 1.575 in								
Sen	sing object			ø60 mi	m ø2.362 in c	or more opaqu	ue object (Co	mpletely bear	m interrupted	object)	
Sup	ply voltage				12 t	o 24 V DC ±1	0 % Ripple	P-P 10 % or	less		
Curr	ent consum	ption	Emitte Receiv	r: 30 mA or le ver: 60 mA or	ess less		Emitter: 35 Receiver: 9	mA or less 0 mA or less		Emitter: 35 n Receiver: 11	mA or less 5 mA or less
Sensing output		 NPN open-collector transistor Maximum sink current: 100 mA Applied voltage: 30 V DC or less (between sensing output and 0 V) Residual voltage: 1.6 V or less (at 100 mA sink current) 									
Output operation			ON when all beam channels are received / OFF when one or more beam channels are interrupted								
Self-diagnosis output		 NPN open-collector transistor Maximum sink current: 50 mA Applied voltage: 30 V DC or less (between self-diagnosis output and 0 V) Residual voltage: 1.6 V or less (at 50 mA sink current) 									
	Output ope	eration	OFF when unstable light received condition continues for 5 sec. or more, or the output transistor fails								
Res	ponse time		12 ms or less								
Inter	ference prev	vention function	Incorporated (Two units of sensors can be mounted close together.)								
Prot	ection		IP65 (IEC)								
Amb	pient temper	ature	-10 to +50 °C +14 to +122 °F (No dew condensation or icing allowed), Storage: -10 to +60 °C +14 to +140 °F								
Emitting element		Infrared LED (synchronized scanning system)									
Material		Protection enclosure: Aluminum, Unit case: ABS, Front cover: Acrylic, Lens: Acrylic									
Net w	eight (Total of e	emitter and receiver)	400 g approx.	500 g approx.	630 g approx.	770 g approx.	890 g approx.	1,020 g approx.	1,150 g approx.	1,400 g approx.	1,660 g approx.
	With spatter	r protection hood	500 g approx.	630 g approx.	800 g approx.	990 g approx.	1,150 g approx.	1,330 g approx.	1,500 g approx.	1,840 g approx.	2,190 g approx.
Dimensions		W30 × H (Sensing height + 50) × D25.5 mm W1.181 × H (Sensing height + 1.969) × D1.004 in (However NA40-4 / NA40-4-H : H180 mm 7.087 in, and NA40-H : D50 mm 1.969 in)									
Accessories			MS-NA40-1 (Sensor mounting bracket): 1 set for emitter and receiver, Adjusting screwdriver: 1 pc.								

Note: Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

Products that obtained Korea's S-mark certification

We offer products that have obtained Korea's S-mark certification (excluding the sensors with spatter protection hood). When ordering this type, suffix "-K" to the model No.

(e.g.) NA40-4 with Korea's S-mark certification is "NA40-4-K".

FIBER SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC ELECTRICITY PREVENTION

LASER MARKERS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

DEVICES

PLC

ORDER GUIDE

Mating cables Mating cable is n	ot supplied with the s	ensor. Please order it separate	ly.	LASER SENSORS		
Appearance	Model No.		Description	PHOTO- ELECTRIC SENSORS		
	NA40-CC3	Length: 3 m 9.843 ft Net weight: 600 g approx. (two cables)	0.5 mm ² 3-core (for receiver: 4-core) cabtyre cable with connector on one end, two cables per set. Cable outer diameter: ø6.7 mm ø0.264 in	AREA SENSORS		
	NA40-CC7	Length: 7 m 22.966 ft Net weight: 950 g approx. (two cables)	Connector outer diameter: ø14 mm ø0.551 in max. Cable color: Gray (for emitter) Black (for receiver)	LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE /		
		·	*	- FLOW SENSORS		

Accessory

• MS-NA40-1 (Sensor mounting bracket)



Four bracket set Four M5 (length 40 mm 1.575 in) truss head screws, four nuts and four spring washers are attached.

Individual units and associated components can be purchased separately

Designation	Number of	Model No.					
Designation	beam channels	Emitter	Receiver				
Main unit	4	NA40-MUP	NA40-MUD				
Sub-unit	4	NA40-4SUP	NA40-4SUD				
Endunit	2	NA40-2EUP	NA40-2EUD				
End unit	4	NA40-4EUP	NA40-4EUD				
End cap (Note)		NA40-ECP	NA40-ECD				

Note: It is required only for NA40-4 or NA40-4-H.



6 1	Cover stopper
M	(attached to protection enclosure)
	<pre>\End unit (2 beam channels)</pre>
d t	Protection
d	Sub-unit
Z Z	
OBO	
Ö	
\Y	Main unit
over	ALSO A

Applicable be chann Designation			4 beam channels	6 beam channels	8 beam channels	10 beam channels	12 beam channels	14 beam channels	16 beam channels	20 beam channels	24 beam channels
Protection enclosure		Model No.	MC-NA40-4	MC-NA40-6	MC-NA40-8	MC-NA40-10	MC-NA40-12	MC-NA40-14	MC-NA40-16	MC-NA40-20	MC-NA40-24
	With spatter protection hood	Model No.	MC-NA40-4H	MC-NA40-6H	MC-NA40-8H	MC-NA40-10H	MC-NA40-12H	MC-NA40-14H	MC-NA40-16H	MC-NA40-20H	MC-NA40-24H
Front cover		Model No.	FC-NA40-4	FC-NA40-6	FC-NA40-8	FC-NA40-10	FC-NA40-12	FC-NA40-14	FC-NA40-16	FC-NA40-20	FC-NA40-24

Note: The model Nos. given above denote a single unit, not a pair of units.

NA40

Selection Guide Slim Body

Picking Other Products FIBER SENSORS

PHOTO-ELECTRIC SENSORS MICRO PHOTO ELECTRIC SENSORS

ARE SENSOR

LIGH CURTAINS SAFETY

COMPONENTS PRESSURE

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> PLC HUMAN

MACHINE ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE

VISION SYSTEMS

CURING SYSTEMS

OPTIONS

LASER											
SENSORS	Applicable beam channels Designation		4 beam	6 beam	8 beam	10 beam	12 beam	14 beam	16 beam	20 beam	24 beam
PHOTO- ELECTRIC			channels	channels	channels	channels	channels	channels	channels	channels	channels
MICRO PHOTO- ELECTRIC	Slit mask	Model No.	OS-NA40-4	OS-NA40-6	OS-NA40-8	OS-NA40-10	OS-NA40-12	OS-NA40-14	OS-NA40-16	OS-NA40-20	OS-NA40-24

Note: The model Nos. given above denote a single unit, not a pair of units.

Slit mask

• OS-NA40-



- Sensing range
- Slit on emitter side: 1.3 m 4.265 ft
- Slit on receiver side: 3 m 9.843 ft
- Slit on both sides: 0.8 m 2.625 ft

Designation	Model No.	Description					
Large indicator for area sensor	SF-IND	With the large indicators put on the sensors, the operation is easily observable from various directions. Orange.					
Note: Two OF INDs are required if they are to be meaned on both the societies and the residues							

Note: Two SF-INDs are required if they are to be mounted on, both, the emitter and the receiver.

Large indicator for area sensor

• SF-IND



The large indicator can be easily mounted on the sensor head at the top. It also can be mounted on an area sensor already being used.

Refer to p.1458~ for general precautions.

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 laws and 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. Type 4: SF4B series (p.565~) Type 2: SF2B series (p.609~)

Slim Body Picking Other

Selection Guide

NA40