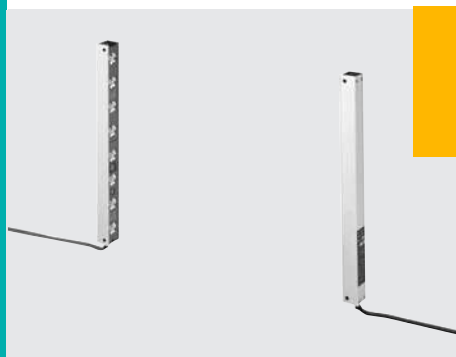


NA40 SERIES

Related Information

- General terms and conditions F-7
- Sensor selection guide..... P.461~
- Glossary of terms / General precautions..... P.1455~ / P.1458~
- Korea's S-mark..... P.1506



Effective September 22, 2023
Panasonic will discontinue the NA40 Series
General Purpose Area Sensor



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

panasonic.net/id/pidsx/global

Slim and smart

SPECIFICATIONS

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

		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
Item		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
Sensing 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								
Sensing object			ø60 mm ø2.362 in or more opaque object (Completely beam interrupted object)								
Supply voltage			12 to 24 V DC ±10 % Ripple P-P 10 % or less								
Current consumption			Emitter: 30 mA or less Receiver: 60 mA or less			Emitter: 35 mA or less Receiver: 90 mA or less			Emitter: 35 mA or less Receiver: 115 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 operation			OFF when unstable light received condition continues for 5 sec. or more, or the output transistor fails								
Response time			12 ms or less								
Interference prevention function			Incorporated (Two units of sensors can be mounted close together.)								
Protection			IP65 (IEC)								
Ambient temperature			-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 weight (Total of 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 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".

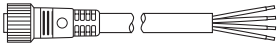
Effective September 22, 2023
Panasonic will discontinue the NA40
Series General Purpose Area Sensor

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

492

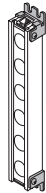
ORDER GUIDE

Mating cables Mating cable is not supplied with the sensor. Please order it separately.

Appearance	Model No.	Description
	NA40-CC3	Length: 3 m 9.843 ft Net weight: 600 g approx. (two cables)
	NA40-CC7	Length: 7 m 22.966 ft Net weight: 950 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 Connector outer diameter: ø14 mm ø0.551 in max. Cable color: Gray (for emitter) Black (for receiver)

Accessory

- **MS-NA40-1** (Sensor mounting bracket)



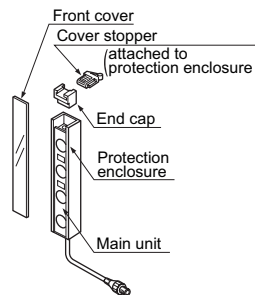
Four bracket set
Four M5 (length 40 mm 1.575 in)
truss head screws, four nuts and
four spring washers are attached.

Individual units and associated components can be purchased separately

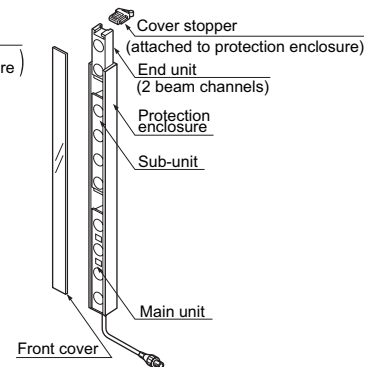
Designation	Number of beam channels	Model No.	
		Emitter	Receiver
Main unit	4	NA40-MUP	NA40-MUD
Sub-unit	4	NA40-4SUP	NA40-4SUD
End unit	2	NA40-2EUP	NA40-2EUD
	4	NA40-4EUP	NA40-4EUD
End cap (Note)	—	NA40-ECP	NA40-ECD

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

• NA40-4



• NA40-10



Applicable beam channels		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
Designation	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
	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.

FIBER
SENSORS

LASER
SENSORS

PHOTO-
ELECTRIC
SENSORS

MICRO
PHOTO-
ELECTRIC
SENSORS

AREA
SENSORS

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

LASER
MARKERS

PLC

HUMAN
MACHINE
INTERFACES

ENERGY
CONSUMPTION
VISUALIZATION
COMPONENTS

FA
COMPONENTS

MACHINE
VISION
SYSTEMS

UV
CURING
SYSTEMS

Selection
Guide

Slim
Body

Picking

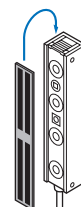
Other
Products

NA40

OPTIONS

Applicable beam channels		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
Designation										
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

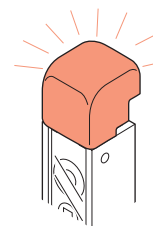
Note: The model Nos. given above denote a single unit, not a pair of units.

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 **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.

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~)

Refer to p.1458~ for general precautions.