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NA1-11



# NA1-11

Cross-beam scanning system to detect slim objects

## Features

### ■ Letters, postcards can be detected

Thin objects can be detected by using the cross-beam scanning system.

### ■ Beam pitch: 10mm

Object to be sensed size of  $\varnothing 13.5\text{mm}$  is realized by using a beam pitch of 10mm.

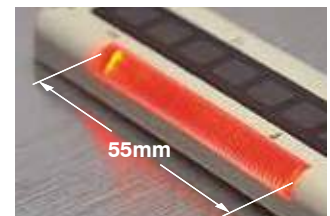
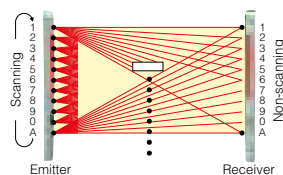
### ■ Long sensing range

Though very slim, a wide sensing area of 1m length and 100mm width is realized. It is most suitable for object detection on a wide assembly line or for detecting the dropping of or incursion by small objects whose travel path is uncertain.

### ■ Clearly visible large indicator

A clearly visible large indicator having a 55mm width is incorporated on both the emitter and the receiver.

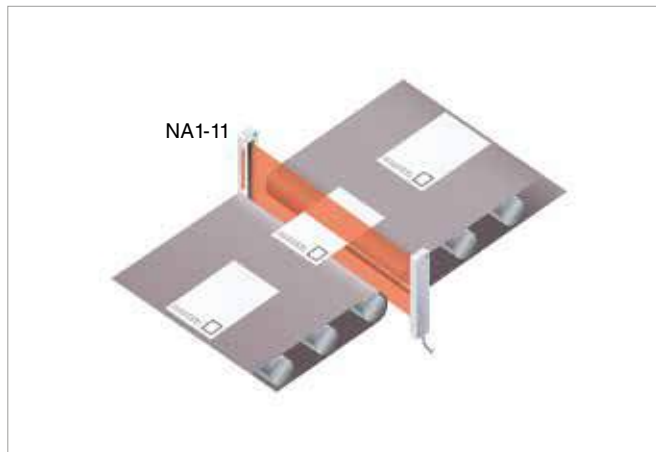
Cross-beam scanning system



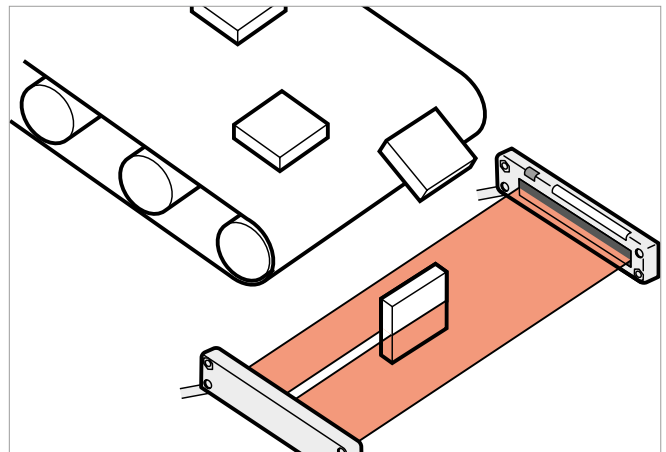
## Typical applications

### Detecting postcards

NA1-11 can detect thin postcards due to its crossbeam scanning system.



### Detection of haphazardly falling objects



### Technical specifications

Type	NPN	PNP
Model no.	NA1-11	NA1-11-PN
Sensing height	100mm	
Sensing range	0 to 1m (note)	
Beam pitch	10mm	
Numbers of beam channels	11 each on the emitter and the receiver, respectively	
Object to be sensed	Min. $\varnothing$ 13.5mm (opaque)	
Supply voltage	12 to 24VDC $\pm$ 10%	
Output	NPN open-collector transistor, max. 100mA	PNP open-collector transistor, max. 100mA
Ambient temperature	-10 to +55°C	
Connection method	Cable, 2m	
Dimensions (HxWxD)	140x30x10mm	

**Note:** Operating range for the receiver: 0.17 to 1m

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