

Takex - NE2 standard photosensor



- Embedded cable or rotatable M12 contact
- 2 outputs, both PNP and NPN
- Long distances
- IP67

Area of application

The NE2 series has been produced to permit as many different applications as possible to be used during automation. Having the same housing size for the various models in the series makes it easy to find the right solution without having to change attachments on the machine. You can choose from a rotatable M12 contact or embedded cable. Two separate outputs in the same photoelectric sensor – one with PNP and one with NPN. Several accessories such as brackets, protective casings and shielding masks facilitate installation.

Technical data

Order no.	NE2T30R	NE2T50	NE2M10R	NE2R10	NE2D70	NE2D50R
Function	Trough-beam	Trough-beam	Polarised retro reflective	Diffuse reflection	Background Suppression	Background Suppression
Detection distance	30 m	50 m	0.03-10 m	1 m	70-700 mm (adjustable 120-700 mm)	70-500 mm (adjustable 120-500 mm)
Smallest detectable objects	Ø21 mm	SSØ21 mm	-	-	-	-
Light source (type of LED)	Red visible (700 nm)	Infrared (880 nm)	Red visible (700 nm)	Infrared (880 nm)	Infrared (880 nm)	Red visible (700 nm)
Power consumption	Transmitter:< 22 mA Receiver:< 17 mA		<24 mA	<20 mA	<40 mA	<38 mA

General technical data

Supply voltage

Output data

LED indication

Light/dark on

Sensitivity setting

Max. interfering light

Temperature range

Protection class

Enclosure material

Reaction time

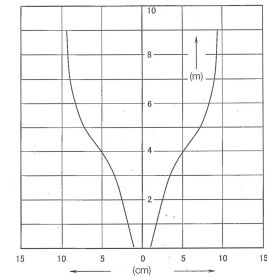
Connection

Housing:
Lens:

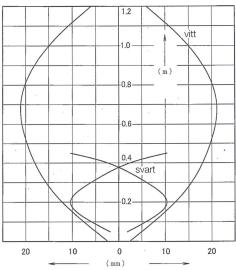
12-24 VDC ±10 %, ripple max. 10 %
PNP/NPN 2 outputs 100 mA 30 VDC max.
Yellow LED indicates output
Green LED comes on to indicate satisfactory detection
Selectable with switch
Potentiometer
5000 lux
-25 °C to +55 °C
IP67
Polycarbonate
Acrylic
0.5 ms max
2 m cable / M12 4-pin contact (-J)

Scatter beams

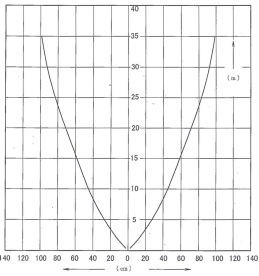
NE2M10R



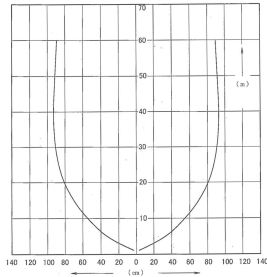
NE2R10



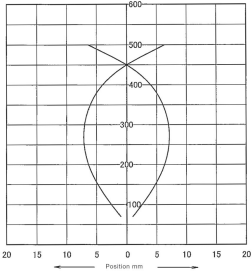
NE2T30R



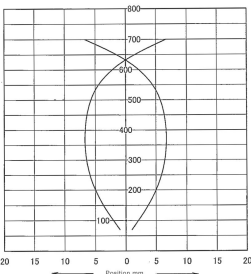
NE2T50R



NE2D50R

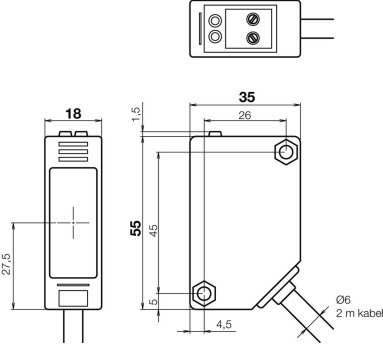


NE2D70

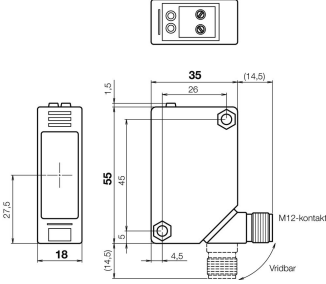


Dimensions

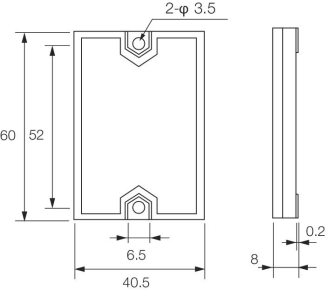
Embedded cable



M12 connector

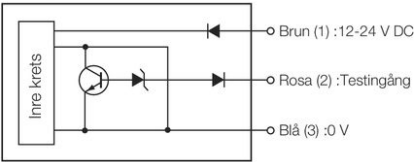


Reflector K7

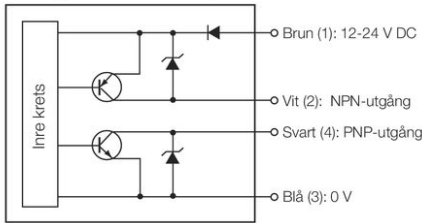


Connection

Sändare



Mottagare/motreflektor, direktavkännande



Interference protection

NE2PFA



15 m

NE2PFB



15 m

Detection distance

The interference protection is used for T/R to prevent nearby pairs of photoelectric sensors from interfering with one another. Suitable only for red visible light. NE2T30R (-J)



NE2PFA - Vertikalt polarisationsfilter
NE2PFB - Horisontellt polarisationsfilter

Order number

Order no.	Description	Output	Range
NE2T30R	Through-beam - 2m lead	PNP / NPN	30m
NE2T30R-J	Through-beam - M12 connector	PNP / NPN	30m
NE2T50	Through-beam - 2m lead	PNP / NPN	50m
NE2T50-J	Through-beam - M12 connector	PNP / NPN	50m
NE2M10R	Polarised retro reflective - 2m lead	PNP / NPN	10m
NE2M10R-J	Polarised retro reflective - M12 connector	PNP / NPN	10m
NE2R10	Diffuse reflection - 2m lead	PNP / NPN	1m
NE2R10-J	Diffuse reflection - M12 connector	PNP / NPN	1m
NE2D50R	Background Suppression - 2m lead	PNP / NPN	500mm
NE2D50R-J	Background Suppression - M12 connector	PNP / NPN	500mm
NE2D70	Background Suppression - 2m lead	PNP / NPN	700mm
NE2D70-J	Background Suppression - M12 connector	PNP / NPN	700mm
NEB1	Bracket, vertical, for NE series		
NEB2	Bracket, wall bracket, for NE series		
ACB012	Protective casing, vertical, for NE and DLS		
ACB013	Protective casing, wall, for NE and DLS		
NE2P3	Shielding mask, hole Ø3 mm, to fit T/R		
NE2P5	Shielding mask, hole Ø5 mm, to fit T/R		
NE2P5X1	Shielding mask, hole 5x1 mm, to fit T/R		
NE2PFA	Interference protection vertical, 2 x		
NE2PFB	Interference protection horizontal, 2 x		