

Photomicrosensors



EE-SX95

- 5 models
- Both Light-On and Dark-On outputs provided
- Mount using M2 or M3 Screws
- Robot Cable available

Housing Material
Polybutylene phthalate (PBT) (Case/Cover)
Polycarbonate (PC) (Emitter/receiver)

Sensing Distance
5 mm slot width

Output Type
NPN, PNP

Output Configuration
Out 1: Light-On
Out 2: Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Pre-wired
(4 wire cable)
(1 m std length)

Popular Part Number

- EE-SX950-W 1M
- EE-SX950P-W 1M
- EE-SX950-R 1M



EE-SX77/87

- Compact size
- Indicator visible from both sides
- M3 mounting holes and slotted mounting holes for easy adjustment

Housing Material
Polybutylene phthalate (PBT)

Sensing Distance
5 mm slot width

Output Type
NPN, PNP

Output Configuration
Light-On or Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Pre-wired
(3 wire cable)
(2 m std length)

Popular Part Number

- EE-SX770
- EE-SX770P
- EE-SX771
- EE-SX771P



EE-SX47/67

- Visible indicator from many directions
- Response frequency as high as 1kHz
- Robot Cable standard on pre-wired models

Housing Material
Polybutylene phthalate (PBT) (Case/Cover)
Polycarbonate (PC) (Emitter/receiver)

Sensing Distance
5 mm slot width

Output Type
NPN, PNP

Output Configuration
Light-On or Dark-On (selectable)

Supply Voltage
5 - 24 VDC

Connection Type
4 wire cable
(1 m std length)
Solder Connector
Connector with 1 m Cable

Popular Part Number

- EE-SX670
- EE-SX670P
- EE-SX671
- EE-SX671P



EE-SPX74/84

- 4 models
- Connectors with locks for vibration applications
- Mount with M3 screws

Housing Material
Polycarbonate (PC)

Sensing Distance
3.6 or 5 mm slot width

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Special Connector
(EE-1013 with 1 m cable)

Popular Part Number

- EE-SPX740
- EE-SPX742
- EE-SPX743
- EE-SPX741



EE-SPX-W2A

- 4 models
- Light modulation to reduce external light interference
- Bright Light Indicator

Housing Material
Polycarbonate (PC)

Sensing Distance
3.6 or 5 mm slot width

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Pre-wired
(3 wire cable)
(1 m std length)

Popular Part Number

- EE-SPX302-W2A
- EE-SPX402-W2A



EE-SPX-303N

- Widest Slot type
- Resistant to common noise

Housing Material
Polycarbonate (PC)

Sensing Distance
13 mm slot width

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
12 - 24 VDC

Connection Type
Connector with standard cable
Connector with robot cable
NPN to PNP Conversion connector

Popular Part Number

- EE-SPX303N
- EE-SPX403N



EE-SPY-31

- Can be used in front of shiny background
- Small object detection (0.05 mm Dia)
- Light modulation reduces external light interference

Housing Material
Polycarbonate PC (case)
Polybutylene Phthalate PBT (holder)

Sensing Distance
2 to 5 mm

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Connector with standard cable
Connector with robot cable
NPN to PNP Conversion connector

Popular Part Number

- EE-SPY311
- EE-SPY411
- EE-SPY312
- EE-SPY412

Photomicrosensors



EE-SY671/672

- Built in sensitivity adjustment
- Built-in amplifier with 100 mA capacity
- Bright indicator light

Housing Material
Polybutylene phthalate (PBT) (Case)
Polycarbonate (PC) (Emitter/receiver)

Sensing Distance
1 to 5 mm

Output Type
NPN

Output Configuration
Light-On or Dark-On (Selectable)

Supply Voltage
5 - 24 VDC

Connection Type
Connector only
Connector with cable
Connector with robot cable

Popular Part Number
• EE-SY671
• EE-SY672



EE-SPX301/401 EE-SPY301/401

- Light Modulation, sensor not affected by external light
- Optical Axis mark for easy adjustment

Housing Material
Polycarbonate (PC)

Sensing Distance
3 - 6 mm slot width
or 5 mm distance

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Connector only
Connector with cable
NPN to PNP converter

Popular Part Number
• EE-SPX301
• EE-SPX401
• EE-SPY301
• EE-SPY401



EE-SPW311/411

- Through Beam
- Easy-to wire connector
- Bright indicator light

Housing Material
Polybutylene phthalate (PBT) (Case)
Polycarbonate (PC) (Lens)

Sensing Distance
1 m through beam

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Connector with
2 m cable

Popular Part Number
• EE-SPW311
• EE-SPW411



EE-SPW321/421

- Cable mounted amplifier for space savings mounting
- Through beam
- Both sensor head and amplifier have indicating lights

Housing Material
ABS Resin (case)
Acrylic Resin (lens)

Sensing Distance
300 mm slot width

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
12 - 24 VDC

Connection Type
Pre-wired 2 m cable

Popular Part Number
• EE-SPW321
• EE-SPW321-A
• EE-SPW421
• EE-SPW421-A



EE-SPX613

- Can mount on 6 mm to 13 mm diameter pipe
- Liquid level indicator
- Built-in sensitivity selector

Housing Material
Polycarbonate (PC)

Sensing Distance
6-13 mm dia. pipe

Output Type
NPN

Output Configuration
Light-On or Dark-On (Selectable)

Supply Voltage
12 - 24 VDC

Connection Type
Pre-wired 1 m cable

Popular Part Number
• EE-SPX613



EE-SPZ□□□-A

- Retroreflective Photomicrosensor with lens
- Supports connection with PLC's

Housing Material
Polycarbonate (PC)

Sensing Distance
200 mm

Output Type
NPN

Output Configuration
Light-On or Dark-On

Supply Voltage
5 - 24 VDC

Connection Type
Connector only
Connector with cable
NPN to PNP converter

Popular Part Number
• EE-SPZ301-A
• EE-SPZ401-A



EE-SA701/801

- Pushbutton actuator
- 5 million operation mechanical life

Housing Material
Polycarbonate (PC) (Base)
Polyacetal (Actuator)

Sensing Distance
Push Button

Output Type
NPN or PNP

Output Configuration
NA

Supply Voltage
12 - 24 VDC

Connection Type
Pre-wired 1 m cable
Pre-wired 1 m robot cable

Popular Part Number
• EE-SA801A 1M
• EE-SA801R 1M