

# E3Z-F

## Compact Photoelectric Sensor with Built-in Amplifier

Customer Presentation  
October 2015




# Line-up



Sensing method	Appearance	Connecting method	Sensing distance	Model	
				NPN output	PNP output
Through-beam (Emitter + Receiver)		Pre-wired (2 m)		<b>E3Z-FTN11 2M *1</b> Emitter E3Z-FTN11-L 2M Receiver E3Z-FTN11-D 2M	<b>E3Z-FTP11 2M *1</b> Emitter E3Z-FTP11-L 2M Receiver E3Z-FTP11-D 2M
		Connector (M12)		<b>E3Z-FTN21 *1</b> Emitter E3Z-FTN21-L Receiver E3Z-FTN21-D	<b>E3Z-FTP21 *1</b> Emitter E3Z-FTP21-L Receiver E3Z-FTP21-D
		Pre-wired (2 m)		<b>E3Z-FTN12 2M *1</b> Emitter E3Z-FTN12-L 2M Receiver E3Z-FTN12-D 2M	<b>E3Z-FTP12 2M *1</b> Emitter E3Z-FTP12-L 2M Receiver E3Z-FTP12-D 2M
		Connector (M12)		<b>E3Z-FTN22 *1</b> Emitter E3Z-FTN22-L Receiver E3Z-FTN22-D	<b>E3Z-FTP22 *1</b> Emitter E3Z-FTP22-L Receiver E3Z-FTP22-D
Retro-reflective with MSR function		Pre-wired (2 m)		<b>E3Z-FRN11 2M</b>	<b>E3Z-FRP11 2M</b>
		Connector (M12)		<b>E3Z-FRN21</b>	<b>E3Z-FRP21</b>
Diffuse-reflective		Pre-wired (2 m)		<b>E3Z-FDN11 2M</b>	<b>E3Z-FDP11 2M</b>
		Connector (M12)		<b>E3Z-FDN21</b>	<b>E3Z-FDP21</b>
		Pre-wired (2 m)		<b>E3Z-FDN12 2M</b>	<b>E3Z-FDP12 2M</b>
		Connector (M12)		<b>E3Z-FDN22</b>	<b>E3Z-FDP22</b>
		Pre-wired (2 m)		<b>E3Z-FDN13 2M</b>	<b>E3Z-FDP13 2M</b>
		Connector (M12)		<b>E3Z-FDN23</b>	<b>E3Z-FDP23</b>
		Pre-wired (2 m)		<b>E3Z-FDN14 2M</b>	<b>E3Z-FDP14 2M</b>
		Connector (M12)		<b>E3Z-FDN24</b>	<b>E3Z-FDP24</b>
		Pre-wired (2 m)		<b>E3Z-FDN15 2M</b>	<b>E3Z-FDP15 2M</b>
		Connector (M12)		<b>E3Z-FDN25</b>	<b>E3Z-FDP25</b>
		Pre-wired (2 m)		<b>E3Z-FDN16 2M</b>	<b>E3Z-FDP16 2M</b>
		Connector (M12)		<b>E3Z-FDN26</b>	<b>E3Z-FDP26</b>
		Pre-wired (2 m)		<b>E3Z-FDN17 2M</b>	<b>E3Z-FDP17 2M</b>
		Connector (M12)		<b>E3Z-FDN27</b>	<b>E3Z-FDP27</b>
		Pre-wired (2 m)		<b>E3Z-FDN18 2M</b>	<b>E3Z-FDP18 2M</b>
		Connector (M12)		<b>E3Z-FDN28</b>	<b>E3Z-FDP28</b>

# Accessories

- Reflector

Appearance	Sensing distance*		Model	Quantity	Remarks
	Rated value	Reference value			
	4 m (100 mm)	---	E39-R1S	1	for E3Z-FR□

- Mounting Brackets

Applicable Sensors	Mounting method	Appearance	Model	Quantity
All models	M3 screw mounting		E39-L189	1
	M18 nut side mounting		E39-L183	1

- Connectors

Applicable Sensors	Size	Cable	Appearance	Cable type		Model
Connector (M12)	M12	Standard	Straight	2 m	4 conductors	XS2F-M12PVC4S2M
				5 m		XS2F-M12PVC4S5M
			L-shaped	2 m		XS2F-M12PVC4A2M
				5 m		XS2F-M12PVC4A5M

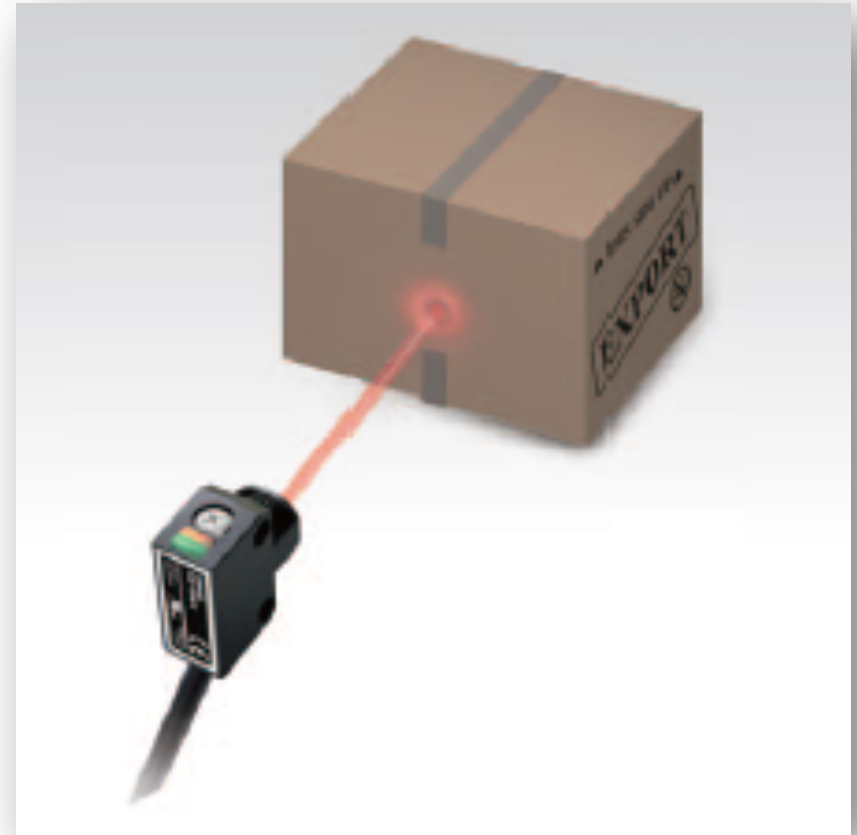
# Visible Spot

## Feature

Visible spot

## Benefit

- Easy installation and set-up

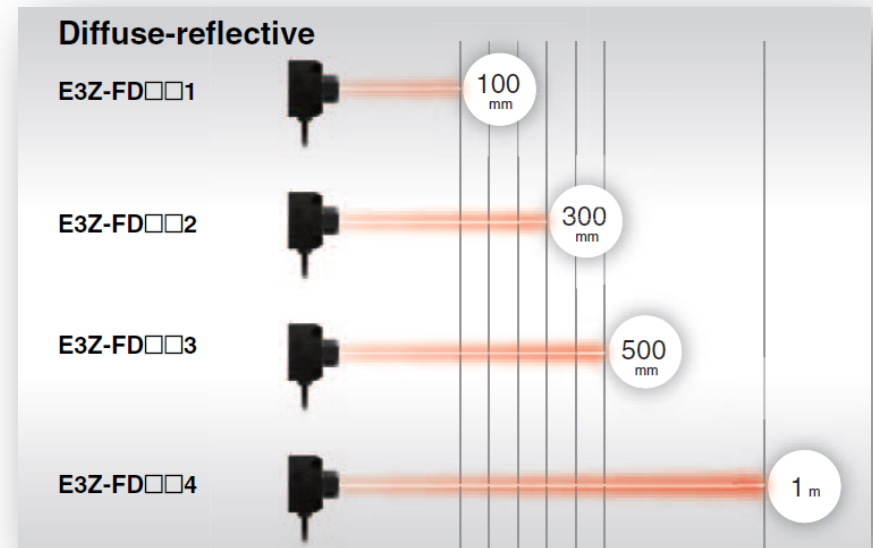


# Wide Line-up

## Feature

Many different sensing distances available

- Transmitted Beam: 20m
- Retro-reflective: 4m
- Diffuse-reflective:
  - 1m
  - 500mm
  - 300mm
  - 100mm



## Benefit

Select the model that best fits your application

# IP69K Wash Down Rated

## Feature

IP69K Rated

## Benefit

- Withstands harsh environments with high temperatures and water pressures



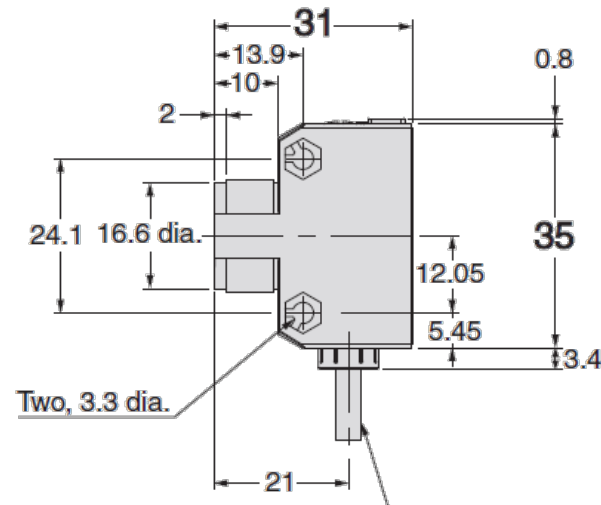
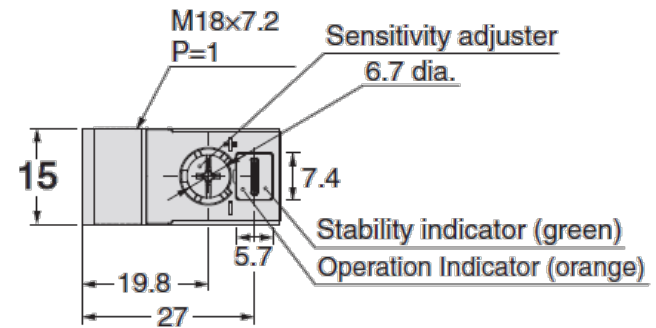
# Compact Size

## Feature

Small size

## Benefit

- Mounts in tight spaces



# Multiple Mounting Options

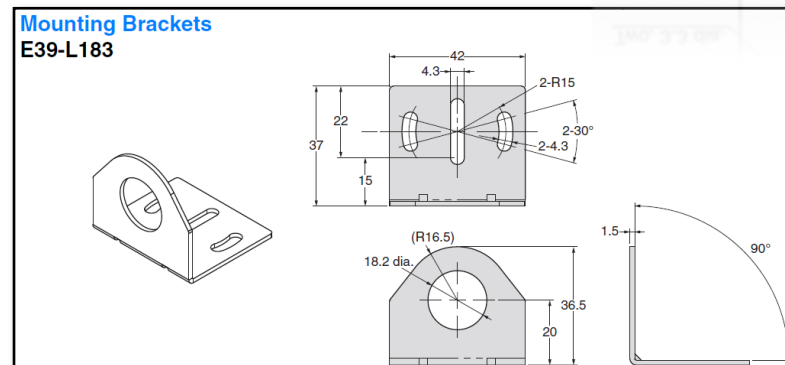
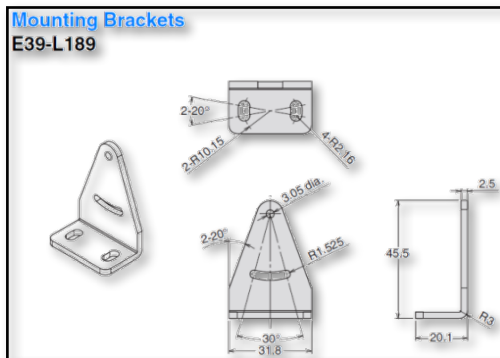
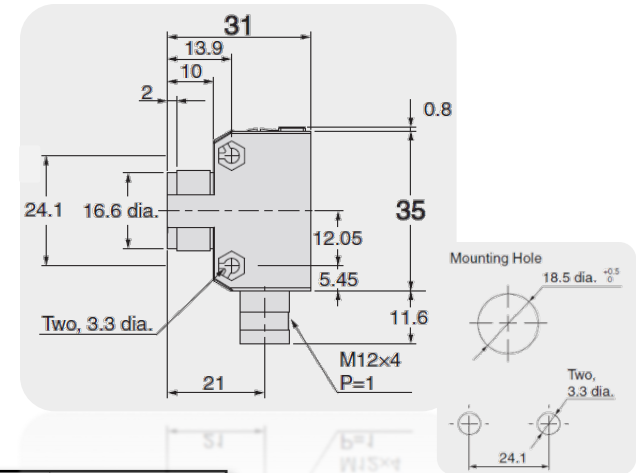
## Feature

Multiple mounting options

- M18 nose mounting with tightening nut
- Mounting holes
- Mounting brackets

## Benefit

- Easily mounts in any configuration





# Complements Existing E3Z Series



- **E3Z**

- Compact photoelectric sensor with built-in amplifier



- **E3ZM**

- Stainless steel housing ideal for food industry



- **E3Z-L**

- Compact and reliable laser photoelectric sensor



- **E3ZM-V**

- Industry's smallest color mark sensor with teaching



- **E3Z-G**

- Grooved-type photoelectric sensor



- **E3ZM-B**

- Excellent PET, resin and glass bottle detection

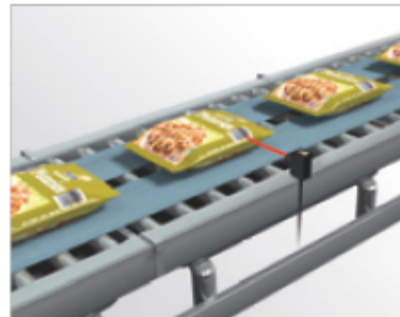
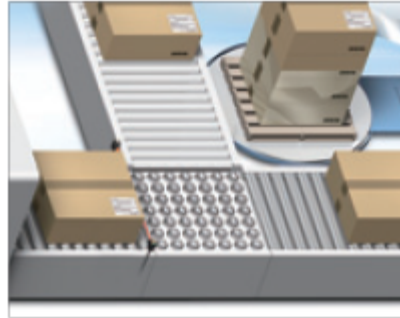


- **E3ZM-C**

- Oil-resistant, robust, compact

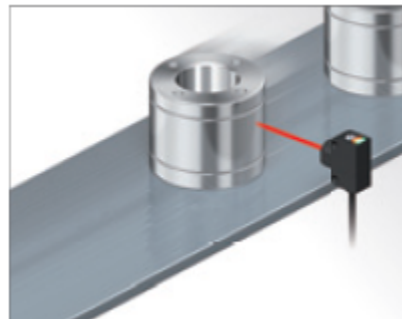
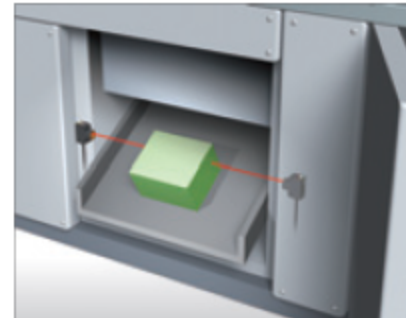
# Great in these applications

- Material Handling
  - Detect passing objects
- Automated Warehouses
  - Detect out of place items
- Packaging Machines
  - Detect passing products



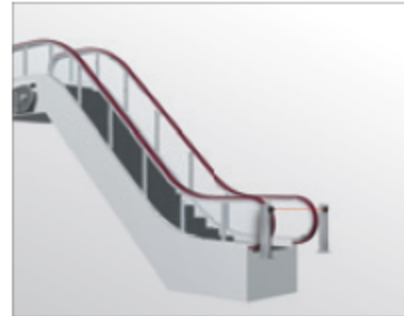
# Great in these applications

- Automotive
  - Detect vehicles
- Molding Machines
  - Detect falling molded parts
- Machine Tools
  - Detect passing objects



# Great in these applications

- Spinning Machines
  - Detect discharging cloth
- Escalators
  - Detect person



# Questions

