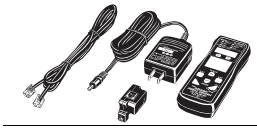
Mobile Console (Dimensions ➜ E3X-DA-S/MDA)

Appearance	Model	Remarks
	**E3X-MC11-SV2 (model number of set)**	Mobile Console with Head, Cable, and AC adapter provided as accessories
	E3X-MC11-C1-SV2	Mobile Console
	E3X-MC11-H1	Head
	E39-Z12-1	Cable (1.5 m)

Note: Use the E3X-MC11-S Mobile Console for the E3X-LDA Series Amplifier Units. The E3X-MC11-SV2 is an upgraded version of the E3X-MC11-S that is fully interchangeable with the older model. Refer to **E3X-DA-S/MDA** for details.

Beam Unit (for E3C-LD11/LR11)

A Beam Unit is not provided with the Sensor and must be ordered separately as required.

Applicable Sensor Head	Appearance	Beam shape	Model
E3C-LD11		Line	**E39-P11**
		Area	**E39-P21**
E3C-LR11		Line	**E39-P31**
		Area	**E39-P41**

Mounting Bracket

A Mounting Bracket is not provided with the Amplifier Unit and must be ordered separately as required.

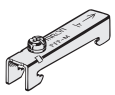
(Dimensions ➜ E39-L/E39-S/E39-R)

Appearance	Model	Quantity
	E39-L143	1

End Plate

A End Plate is not provided with the Amplifier Unit and must be ordered separately as required.

(Dimensions ➜ PFP-□)

Appearance	Model	Quantity
	**PFP-M**	1

Reflectors (Required when using retro-reflective models)

A Reflector is not provided with the Sensor head. Be sure to order a Reflector separately.

(Dimensions ➜ E39-L/E39-S/E39-R)

Type	Appearance	Model
Standard Effective area: 23 × 23 mm *		**E39-R12**
Standard Effective area: 7 × 7 mm *		**E39-R13**
Transparent object detection Effective area: 23 × 23 mm *		**E39-R14**
Sheet (cuttable) Effective area: 195 × 22 mm		**E39-RS4**
Sheet (cuttable) Effective area: 108 × 46 mm		**E39-RS5**

Note: For details, refer to ***Reflectors*** → **E39-L/E39-S/E39-R**

* Use a standard model (E39-R12/R13) if the distance from the Sensor is 400 mm or more. Use the short-distance model (E39-R14) if the distance is less than 400 mm.

Ratings and Specifications

For dimensions, refer to pages **12** to **16**.

Sensor Heads

Item \ Type / Model	Diffuse-reflective			Coaxial Retro-reflective (with M.S.R. function)			
	E3C-LD11	E3C-LD21	E3C-LD31	E3C-LR11	E3C-LR11+ E39-P31	E3C-LR11+ E39-P41	E3C-LR12
Light source (wavelength)	Red semiconductor laser diode (650 nm), 3 mW max. (JIS Class 2, IEC/EN Class 2, and FDA Class 2)			Red semiconductor laser diode (650 nm), 3 mW max. (JIS Class 2, IEC/EN Class 2, and FDA Class 2)			1 mW max. (JIS Class 1, IEC/EN Class 1, and FDA Class 2)
Sensing distance	High-resolution mode: 30 to 1,000 mm Standard mode: 30 to 700 mm Super-high-speed mode: 30 to 250 mm *1			7 m 5 m 2 m *2	1,700 mm 1,300 mm 700 mm *2	900 mm 700 mm 400 mm *2	7 m 5 m 2 m *2
Focus *3	0.8 mm max. (at distances up to 300 mm)	33 mm (at 150 mm)	33 × 15 mm (at 150 mm)	0.8 mm max. (at distances up to 1,000 mm)	28 mm (at 150 mm)	28 × 16 mm (at 150 mm)	2.0-mm dia. (at distance up to 1,000 mm)
Functions	Variable focal point mechanism (focus adjustment) *4, optical axis adjustment mechanism (axis adjustment)						
Indicators	LDON indicator: Green; Operation indicator: Orange						
Ambient illumination (Receiver side)	Incandescent lamp: 3,000 lx						
Ambient temperature	Operating: –10 to 55°C, Storage: –25 to 70°C (with no icing or condensation)						
Ambient humidity	Operating/storage: 35% to 85% (with no condensation)						
Insulation resistance	20 MΩ min. at 500 VDC						
Dielectric strength	1,000 VAC at 50/60 Hz for 1 minute						
Shock resistance	Destruction: 300 m/s^2 6 directions 3 times each (up/down, right/left, forward/backward)						
Vibration resistance	Destruction: 10 to 150 Hz with double amplitude of 0.7 mm, in X, Y, and Z directions for 80 min each						
Degree of protection	IP40 (IEC)			IP40 (IEC 60529)			
Connection method	Connector (standard cable length: 2 m)						
Materials	Case and cover: ABS Front surface filter: Methacrylic resin			Case and cover: ABS Front surface filter: Glass			
Weight (packed state)	Approx. 85 g			Approx. 100 g			
Accessories	Instruction manual, Laser warning labels (English)						

*1. Sensing distance values are for white paper.
*2. These sensing distance values apply when a E39-R12 Reflector is used. The MSR function is built-in. The reflected light from the object being measured may affect the sensing accuracy, so adjust the threshold value before use.
*3. The beam radius is the value for the middle measurement distance and indicates a typical value for the middle sensing distance. The radius is defined by light intensity of 1/e^2 (13.5%) of the central light intensity.
Light will extend beyond the main beam and may be affected by conditions surrounding the object being measured.
*4. The E3C-LR12 has a fixed beam size (the focal point cannot be changed).