

■DIMENSIONS

E3Z-L□□1-UL/-L□□3-UL

Sensitivity adjuster **
Operation mode switch **

10.8
10.4
10.2

Operation indicator *
Stability indicator *

20
17
2.1
31
25.4
15.5

Lens
Optical axis

2-M3

omron

Vinyl insulated round cord
Standard length 2m, 4da

*Only power indicator is on a light source of Separate type.
**The form differs because a light source of Separate type does not have it.
***Please refer to the product specification sheet.

E3Z-L□-M1TJ-UL and E3Z-L□-M1J-UL.

E3Z-L1006-UL/-L1008-UL

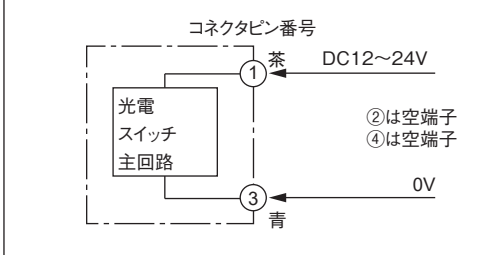
Technical drawing of the E3Z-L1006-UL/-L1008-UL photoelectric sensor. The drawing includes a side view on the left showing the lens and optical axis, and a top view on the right showing the sensor head with dimensions and labels. Labels include 'Sensitivity adjuster', 'Operation mode switch', 'Operation indicator', 'Stability indicator', 'Lens', and 'Optical axis'. Dimensions are given in millimeters.

* M12スマートクリックコネクタ中継タイプは、-ULの前に“-M1TJ”とつきます。M12標準コネクタ中継タイプは、-ULの前に“-M1J”とつきます。
注1. 使用環境(標高):2000m以下、汚染度:3、外郭:Type1 とする。

■出力段回路図

	NPN出力 形E3Z-L [6] -UL	PNP出力 形E3Z-L [8] -UL
出力形態 形式 出力回路	動作表示灯 (橙) 制御入力 負荷 安定表示灯 (緑) コネクタピン番号は実端子	動作表示灯 (橙) 制御入力 負荷 安定表示灯 (緑) コネクタピン番号は実端子

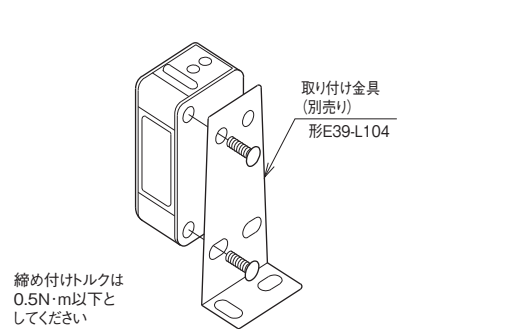
透過形の投光器



コネクタピン配置



■取り付け図



締め付けトルクは
0.5N・m以下と
してください

ご承諾事項

当社製品は、一般工業製品向への汎用品として設計製造されています。従って、これら汎用への使用のため用途を限定しておりません。お客様が当社製品をこれらの用途に使用される際には、当社は当社製品に対して保証をいたしません。また、次に掲げる用途での使用でも保証をいたしません。当社は、お客様が製品を次の用途に使用される場合、生命・身体に危険及び/若しくは損害が生ずる可能性があります。

- (a) 高圧・高電圧に必要とする用途（例：電力/動力設備、電機設備、電機・宇宙通信、鉄道設備、昇降設備、輸送設備、医用機器、安全装置、その他生命・身体に危険及び/若しくは損害を生ずる用途）
- (b) 高信頼性が必要とする用途（例：水素・電気等の供給システム、24時間連続運転システム、システム故障による重大な損害を生ずる用途）
- (c) 厳しい条件下に環境での使用（例：腐食・配管する設備、化学的汚染を被る設備、電磁的妨害を被る設備、振動・衝撃を受け設備等）
- (d) カロワラに記載のない材質・環境での使用

*上記は適合用途の条件の一部です。当社のベスト、総合カタログ、データシート等最新版のカタログ、マニュアルに記載の保証・免責事項の内容をよく読んでご使用ください。

オムロン株式会社 インダストリアルオートメーションビジネスカンパニー

●製品に関するお問い合わせ先
お客様相談室

フリー
ダイヤル

0120-919-066

携帯電話・固定電話の両方の場合、お近くの電話番号へ ☎055-982-5015
(営業時間外はフリーダイヤルへ)

受付時間：9:00~17:00 (土・日・12/31~1/3を除く)

●オムロンFAキックチャット

www.fa.omron.co.jp/contact/tech/chat/

技術相談室にチャットでお問い合わせいただけます。
(Webメンバー登録)

受付時間：平日9:00~12:00・13:00~17:00
(土・日・12/31~1/3を除く、当社の休業日を除く)

※受付時間外、営業日は変更の可能性があります。
最新情報はWebページをご覧ください。

QRコード

●その他のお問い合わせ

順次、価格・サンプル・仕様書は貴社の御取引先、または貴社担当
オムロン販売店へご相談ください。オムロン・制御機器販売店又は
オムロン販売店、Webページでもご相談可です。

■ RATING PERFORMANCE

Detection system	Through-beam type		Retroreflective type		Distance-setting type	
Type *	NP/N	E3Z-L6T1/LT66-UL	E3Z-L6T1/LT66-UL	E3Z-L1L1/L166-UL	E3Z-L1L3/L168-UL	E3Z-L1L3/L168-UL
	PNP	E3Z-L6T1/LT66-UL	E3Z-L1R1/L186-UL	E3Z-L1L1/L166-UL	E3Z-L1L3/L168-UL	E3Z-L1L3/L168-UL
Detecting distance		60m	0.3 to 15m(with E39-R1) 0.2 to 7m(with E39-R12) 0.2 to 7m(with E39-R6)	20 to 300mm (white paper 100X100mm) 20 to 150mm (Black paper 100X100mm)	25 to 300mm (white paper 100X100mm) 25 to 100mm (Black paper 100X100mm)	
Setting distance		—		40 to 300mm (white paper 100X100mm) 40 to 150mm (Black paper 100X100mm)	40 to 300mm (white paper 100X100mm) 40 to 100mm (Black paper 100X100mm)	
Hysteresis		—		—	5% of setting distance max	
Black/white error		—		5%(of 160mm)	5%(of 100mm)	
Light source		Visible wavelength for the semiconductor laser: 655 nm				
Supply voltage		12 to 24 VDC (Ripple (p-p): 10% max.), Class2				
Current consumption		Light source: 15mA max. Receiver: 20mA max.	30mA max.			
Control output		Load power supply voltage 26.4 VDC max., load current 100mA max. Open collector output Light-On/Dark-On switch selectable				
Residual voltage		1 V or less: Load current less than 10mA. 2 V or less: Load current less than 10 to 100mA.				
Response time		1ms max.				0.5ms max.
Ambient Temperature		Operating -10 to +55°C, Storage -25 to +70°C(no freezing and condensation)				
Ambient humidity		Operating 35 to 85%, Storage 35 to 95% (no freezing and condensation)				
Protection structure		IEC60529 - IP67				
Material		Polycarbonate Tough-shield resin (PBT) Polycarbonate resin (PC)				
	Display					
	Lens	Denatured Polyarylate resin	Acrylic resin		Denatured Polyarylate resin	

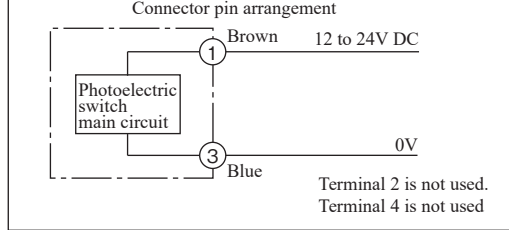
* M12 Pre-wired smartclick connector Models are preceded by "-M1TJ" in front of -UL. M12 Standard Pre-wired Connector Models are preceded by "-M1J" in front of -UL.

Note 1. Altitude: Up to 2000m, Pollution degree: 3, Enclosure type: type 1.

■ OUTPUT CIRCUIT DIAGRAM

Output Type	NPN output E32-L16□□-UL	PNP output E32-L18□□-UL
Output circuit		

Light source of Separate type



CONNECTOR PIN ARRANGEMENT

TYPE E3Z-L-□□6-UL/-L-□□8-UL	TYPE E3Z-L-□-MITJ-UL TYPE E3Z-L-□-MIJ-UL
	

■ DIMENSIONS

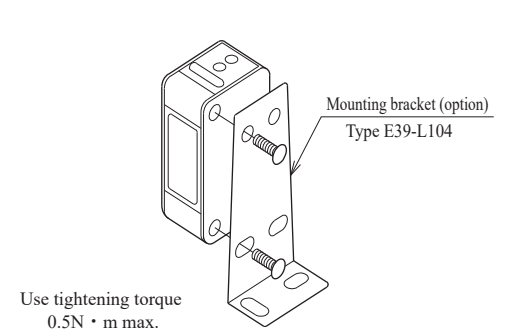
*Only power indicator is on a light source of Separate type.
 **The form differs because a light source of Separate type does not have it.
 ***Please refer to the product specification sheet.
 E3Z-L□-MITJ-UL and E3Z-L□-MIJ-UL.

E3Z-L□□6-UL/-L□□8-UL

Diagram of the front panel of the device. The panel features a digital display showing '10.8' and '10.4'. Below the display is a small indicator light labeled 'Operation indicator *'. To the right of the display are two controls: a 'Sensitivity adjuster **' and an 'Operation mode switch **'.

Technical drawing of the OMRON E66-100 photoelectric sensor. The drawing shows a side view of the sensor with various dimensions and labels. The 'Optical axis' is indicated on the left. The 'Lens' is at the top. Dimensions include 16, 13.5, 10.4, 2.1, 31, 25.4, 17, 2.0, 9.75, and 2-M3. The 'OMRON' logo is visible on the side. A mounting hole is labeled 'M8 x 1'.

■ MOUNTING



Use tightening torque
0.5N · m max.

Suitability for Use

Ommen Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Ommen will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

OMRON Corporation (Manufacturer)

Regional Headquarters

- **OMRON EUROPE B.V. (Importer in EU)**
Weglaan 67-69, 2132 JD Hooftdorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388
- **OMRON ELECTRONICS LLC**
2695 Greenpoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-845-7900/Fax: (1) 847-845-7787
- **OMRON ASIA PACIFIC PTE. LTD.**
438B Alexandra Road, #05-01/02
Alexandra Technopark,
Singapore 119969
Tel: (65) 6335-3011/Fax: (65) 6335-3011
- **OMRON (CHINA) CO., LTD.**
Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-6023-0333/Fax: (86) 21-5037-2388