



Powering Business Worldwide

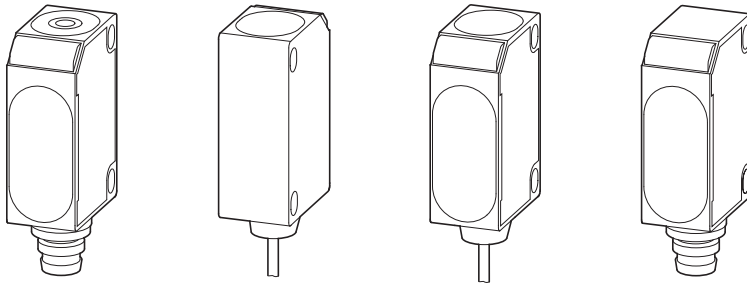
03/22 IL05305006Z (P52080)

Instruction Leaflet
Montageanweisung
Notice d'installation
Instrucciones de montaje

Istruzioni per il montaggio
安装说明
Инструкция по монтажу
منشور التعليمات

NanoView Optical Sensors

E71...



(en) Electric current! Danger to life!
Only skilled or instructed persons may carry out the following operations.

(de) Lebensgefahr durch elektrischen Strom!

Nur Elektrofachkräfte und elektrotechnisch unterwiesene Personen dürfen die im Folgenden beschriebenen Arbeiten ausführen.

(fr) Tension électrique dangereuse !

Seules les personnes qualifiées et averties doivent exécuter les travaux ci-après.

(es) ¡Corriente eléctrica! ¡Peligro de muerte!

El trabajo a continuación descrito debe ser realizado por personas cualificadas y advertidas.

(it) Tensione elettrica: Pericolo di morte!

Solo persone abilitate e qualificate possono eseguire le operazioni di seguito riportate.

(zh) 触电危险 !

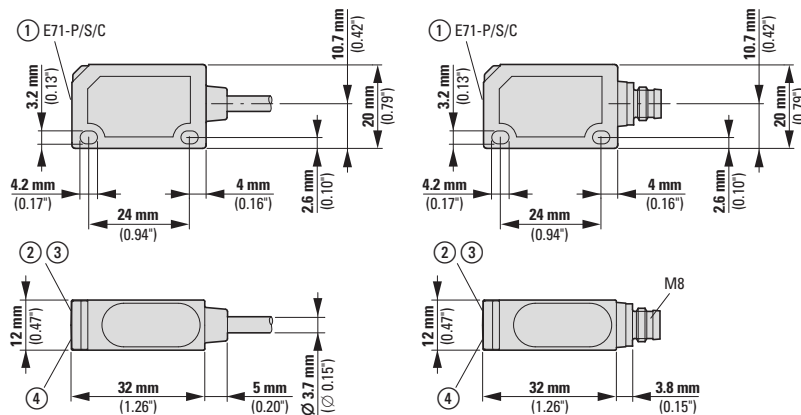
只允许专业人员和受过专业训练的人员进行下列工作。

(ru) Электрический ток! Опасно для жизни!

Только специалисты или проинструктированные лица могут выполнять следующие операции.

(ar) تحذير! تيار كهربائي ! خطر موت !
لا تتم اعمال الصيانة و التركيب
! الا من قبل العاملين المدربين

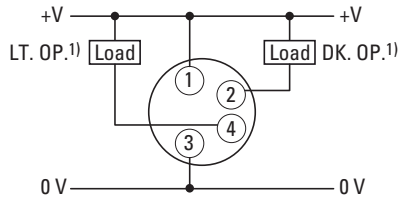
Dimensions



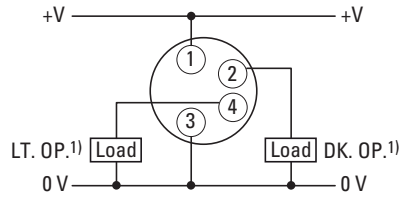
- ① Sensitivity Dial
- ② Stability LED
- ③ Power On LED
- ④ Output LED

Wiring diagrams

NPN

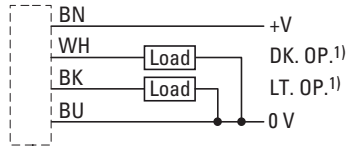
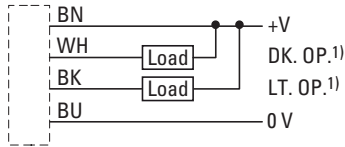


PNP



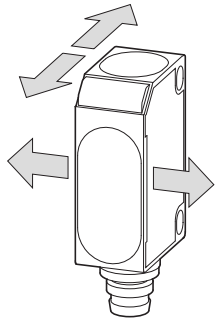
→ DIN IEC 304, DIN IEC 757

BK	0
BN	1
BU	6
WH	9



1) Light Output is on BK wire/Pin 4 for Diffuse sensors and on WH wire/Pin 2 for Retroreflective and thru-beam sensors.

Initial Setup



For E71-P/C (polarized retroreflective and clear object) models...

- Position sensor and reflector on opposite sides.
- Turn the sensitivity dial to maximum.
- Find the point at which the output LED (yellow) is switched on, then find the point where the output LED (yellow) is switched off, then aim the sensor in the center between these two points.
- To further improve alignment, repeat this process while progressively reducing the sensitivity.
- At the conclusion of the process, return the sensitivity to maximum.
- Optimum sensing reliability is obtained when the green LED is on (for polarized refl ex models).
- For Clear Object detection of transparent or very small targets, reduce the sensitivity dial position until the sensor successfully detects the target material.

For E71-T/N (thru-beam source and receiver) models...

- Position the source and receiver sensor on opposite sides.
- Find the point at which the output LED (yellow) is switched on, then find the point where the output LED (yellow) is switched off, then aim the sensor in the center between these two points.
- Optimum sensing reliability is obtained when the green LED is on.

For E71-S (diffuse reflective) models...

- Position the sensor and turn the sensitivity dial to minimum.
- The green LED should be on, the yellow LED should be off.
- Place the target opposite the sensor.
- Turn the sensitivity dial clockwise until the yellow LED turns on (target detected state).
- Remove the target and the yellow LED should turn off.
- Turn the sensitivity dial clockwise until the yellow LED turns on (background detected state).
- Turn the sensitivity dial to an intermediate position between target detected state and background detected state.
- The green LED must be on.

For E71-F (fixed focus) models...

- The operating distance of these sensors is factory set at 11 cm ± 10 %
- To improve detection, move the target closer or further away from the sensor, or move the target perpendicular to the sensor body (as pictured).

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