Leuze

Laser diffuse reflection sensor

HT25CL2

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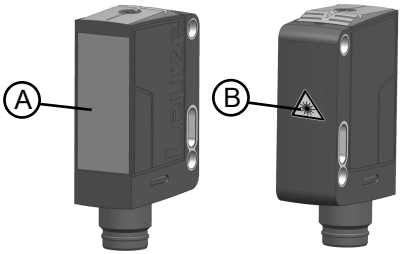
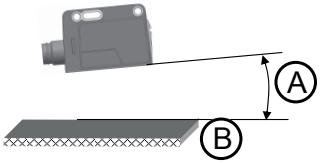
1


A
B

2


50141243-01
LASERSTRAHLUNG
NICHT IN DEN STRAHL BLICKEN
Max. Leistung (peak): ≤ 10 mW
Impulsdauer: ≤ 4.5 µs
Wellenlänge: 650 nm
LASER KLASSE 2
DIN EN 60825-1:2015
LASER RADIATION
DO NOT STARE INTO BEAM
Maximum Output (peak): ≤ 10 mW
Pulse duration: ≤ 4.5 µs
Wavelength: 650 nm
CLASS 2 LASER PRODUCT
EN 60825-1:2014
RADIAZIONE LASER
NON FISSARE IL FASCIO
Potenza max. (picco): ≤ 10 mW
Durata dell'impulso: ≤ 4.5 µs
Lunghezza d'onda: 650 nm
APPARECCHIO LASER DI CLASSE 2
EN 60825-1:2014
RAYONNEMENT LASER
NE PAS REGARDER DANS LE FAISCEAU
Puissance max. (crête): ≤ 10 mW
Durée d'impulsion: ≤ 4.5 µs
Longueur d'onde: 650 nm
APPAREIL À LASER DE CLASSE 2
EN 60825-1:2014
RADIACIÓN LÁSER
NO MIRAR FIJAMENTE AL HAZ
Potencia máx. (peak): ≤ 10 mW
Duración del impulso: ≤ 4.5 µs
Longitud de onda: 650 nm
PRODUCTO LÁSER DE CLASE 2
EN 60825-1:2014
RADIAÇÃO LASER
NÃO OLHAR FIXAMENTE O FEIXE
Potência máx. (peak): ≤ 10 mW
Período de pulso: ≤ 4.5 µs
Comprimento de onda: 650 nm
EQUIPAMENTO LASER CLASSE 2
EN 60825-1:2014
LASER RADIATION
DO NOT STARE INTO BEAM
Maximum Output (peak): ≤ 10 mW
Pulse duration: ≤ 4.5 µs
Wavelength: 650 nm
CLASS 2 LASER PRODUCT
IEC 60825-1:2014
Complies with 21 CFR 1040.10
激光辐射
勿盯着光束看
最大输出 (峰值): ≤ 10 mW
脉冲持续时间: ≤ 4.5 µs
波长: 650 nm
2 类激光产品
IEC 60825-1:2014

3



Laser safety notices - laser class 2

A Laser aperture
B Laser warning sign

	⚠ ATTENTION
	**LASER RADIATION – CLASS 2 LASER PRODUCT** **Do not stare into beam!** The device satisfies the requirements of IEC/EN 60825-1:2014 safety regulations for a product of **laser class 2** and complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019. - Never look directly into the laser beam or in the direction of reflected laser beams! If you look into the beam path over a longer time period, there is a risk of injury to the retina. - Do not point the laser beam of the device at persons! - Interrupt the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person. - When mounting and aligning the device, avoid reflections of the laser beam off reflective surfaces! - CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure. - Observe the applicable statutory and local laser protection regulations. - The device must not be tampered with and must not be changed in any way. There are no user-serviceable parts inside the device. Repairs must only be performed by Leuze electronic GmbH + Co. KG.

Laser information and warning signs

2

NOTICE
Affix laser information and warning signs! Laser information and warning signs attached to the device. Also included with the device are self-adhesive laser warning and laser information signs (stick-on labels) in multiple languages. - Affix the laser information sheet to the device in the language appropriate for the place of use. When using the device in the US, use the stick-on label with the "Complies with 21 CFR 1040.10" notice. - Affix the laser information and warning signs near the device if no signs are attached to the device (e.g. because the device is too small) or if the attached laser information and warning signs are concealed due to the installation position. Affix the laser information and warning signs so that they are legible without exposing the reader to the laser radiation of the device or other optical radiation.

Application notes

3

A Slight inclination 5° … 7°

B Glossy object surface within the operating range

Detection of glossy surfaces within the operating range

When detecting glossy surfaces (e.g. metals), the light beam should not hit the object surface at a right angle. A slight inclination is enough to detect the object reliably. The following applies: the smaller the range, the greater the angle of inclination (approx. 5° to 7°).

NOTICE
It is imperative to note the task and the associated inclination of the sensor of approx. 5° … 7°.