



Product Service

CERTIFICATE

No. Z10 16 07 39656 321

Holder of Certificate: Omron Corporation
Shiokoji Horikawa, Shimogyo-ku
Kyoto
600-8530 JAPAN

Factory(ies): 48774, 56891, 64470, 92539

Certification Mark:



Product: Electro-Sensitive Protective Equipment
Safety Light Curtain (Type 2)

Model(s): F3SG - 2 x x xxxx x x-x-xxx
For nomenclature see attachment

Parameters:

Supply voltage:	24 VDC ($\pm 20\%$)
Current consumption:	max 115 mA Emitter max 125 mA Receiver
Response time:	max 18 ms in normal mode max 36 ms in slow mode
Ambient temperature	-10°C to +55°C
Degree of protection:	IP65 / IP67

Tested according to:

- 2006/42/EC
- EN 61496-1:2013 (Type 2)
- EN 61496-2:2013 (Type 2)
- EN 61508-1:2010 (SIL 1)
- EN 61508-2:2010 (SIL 1)
- EN 61508-3:2010 (SIL 1)
- EN 61508-4:2010 (SIL 1)
- EN ISO 13849-1:2015 (Cat. 2, PL c)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 717509460

Valid until: 2021-07-13

Date, 2016-07-14


(Günter Greil)



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ATTACHMENT TO CERTIFICATE

No. Z10 16 07 39656 321

Nomenclature of Product type

F3SG- 2 X X XXXX X X- X - XXX
 I II III IV V VI VII VIII IX

where

- I. Product classification
F3SG: Safety light curtain
- II. Type classification
2: Type 2 ESPE / AOPD
- III. Model classification
R: Robust model
- IV. Sub model classification
E: Easy
A: Advance
- V. Protective height (PH)
4 figures from 0160 to 2510
PH is calculated with the following formula.
Detection capability is 14 mm: $PH (mm) = (\text{Number of beams} \times 10) + 10$
Detection capability is 25 mm: $PH (mm) = (\text{Number of beams} \times 20) + 25$
Detection capability is 30 mm: $PH (mm) = (\text{Number of beams} \times 20) + 30$
- VI. Output
P: PNP transistor output (for receiver or set of emitter and receiver)
N: NPN transistor output (for receiver or set of emitter and receiver)
-: PNP/NPN selection (for receiver)
-: None (for emitter)
- VII. Detection capability
30: 30 mm
25: 25 mm
14: 14 mm
- VIII. Emitter or receiver
Blank: Set of emitter and receiver
E: Emitter
D: Receiver

**ATTACHMENT TO CERTIFICATE****No. Z10 16 07 39656 321****IX. Additional suffix**

Blank: Standard type

Additional letter(s), number(s), and/or dash : The following specification changes are indicated by this additional suffix.

- 1) Cable length within maximum length specification
- 2) Connector-less cable / Connector cable
- 3) Factory settings of the selectable functions
- 4) Appearance of the enclosure, and/or additional markings
- 5) Packaging style and/or contained accessories
- 6) Name of the indicators, inputs, and/or outputs
- 7) Number of connector pin
- 8) With/ Without of Bumper
- 9) Initial setting of DIP-switch
- 10) Different shape of internal DIP-switch cover