



EC/EU Declaration of Conformity

We hereby declare that the following product is in conformity with the requirements of the following EC/EU Directives:

Product:	Safety Light Curtain	
Type:	F3SG series	
Title and No. of Directive:	EMC Directive	2004/108/EC, 2014/30/EU
	Machinery Directive	2006/42/EC

These products are designed and manufactured in accordance with the following standards.

EMC Directive:
 EMI (Electromagnetic Interference): EN 61000-6-4: 2007/A1:2011
 EMS (Electromagnetic Susceptibility): EN 61496-1:2013
 Machinery Directive:
 Electro-sensitive protective equipment: EN 61496-1:2013
 Active opto-electronic protective devices: EN 61496-2: 2013

Description of Product:

The F3SG series are electro-sensitive protective equipment designed specifically to detect persons in order to ensure their safety.

The F3SG-4 series are Type 4 ESPE according to EN 61496-1:2013 & Type 4 AOPD according to EN 61496-2:2013 and can be used as a safeguard for personal protection at machinery and other hazardous areas, which require safeguards intended for Categories B, 1, 2, 3 and 4 and "PL e" according to EN ISO 13849-1:2008.

The F3SG-2 series are Type 2 ESPE according to EN 61496-1:2013 & Type 2 AOPD according to EN 61496-2:2013 and can be used as a safeguard for personal protection at machinery and other hazardous areas, which require safeguards intended for Categories B, 1, and 2 and "PL c" according to EN ISO 13849-1:2008.

Certificate:

Machinery Directive - Certificate for EC Type-Examination
 Notified Body: TÜV SÜD Product Service GmbH
 Address: Zertifizierstelle, Ridlerstrasse 65, 80339, München, Germany
 Notified Body identification No.: 0123

Responsible person for documentation:

J.J.P.W. Vogelaar OMRON EUROPE B.V.
 Zilverenberg 2, 5234 GM, 's-Hertogenbosch, The Netherlands

Manufacturer:

Name: OMRON Corporation, Industrial Automation Company,
 Safety Division
 Address: Shiokoji-horikawa, Shimogyo-ku, Kyoto, 600-8530, JAPAN

Date: 24 - Dec : 2014

Signed: Eiji Bando
 Eiji Bando Business Development Dept.

Representative in EU:

Name: OMRON Europe B.V.
 Address: Zilverenberg 2, 5234 GM, 's-Hertogenbosch, THE NETHERLANDS

Date: 05 / 01 / 15

Signed: J.J.P.W. Vogelaar
 J.J.P.W. Vogelaar European Quality & Environment Operations Manager

Products Covered

Type: F3SG Series

F3SG- () () () () () () () - ()
I II III IV V VI VII VIII

- I : 2 or 4
- II : R
- III : A or E
- IV : 0160 to 2510
- V : P, N, or hyphen
- VI : 14 or 30
- VII : Blank, -L, or -D
- VIII : Blank, or additional letter(s), number(s), and/or dash

Revision History

Rev.	Date	Revised Contents
A	Sep 29, 2014	Original Version
B	Dec 15, 2014	Added F3SG-RE model. Added EMC Directive 2014/30/EU.



Product Service

CERTIFICATE

No. Z10 15 02 39656 291

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

Factory(ies): 48774, 56891, 64470

Certification Mark:



Product: Electro-Sensitive Protective Equipment
Safety Light Curtain (Type 4)

Model(s): F3SG - 4 x x xxxx x x-x-xxx
For nomenclature see attachment

Parameters:

Supply voltage:	24 VDC (±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 4)
EN 61496-2:2013 (Type 4)
EN 61508-1:2010 (SIL 3)
EN 61508-2:2010 (SIL 3)
EN 61508-3:2010 (SIL 3)
EN 61508-4:2010 (SIL 3)
EN ISO 13849-1:2008 (Cat. 4, PL e)

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: 2020-03-26

Date, 2015-03-27


(Günter Greil)



Page 1 of 3



ATTACHMENT

to certificate

No. Z10 15 02 39656 291

F3SG- 4 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
4: Type 4 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 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
14: 14 mm
- VIII. Emitter or receiver
Blank: Set of emitter and receiver
E: Emitter
D: Receiver



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



Product Service

CERTIFICATE

No. Z10 15 02 39656 250

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

Factory(ies): 48774, 56891, 64470

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 (±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 13849-1:2008 (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: 2020-03-26

Date, 2015-03-27

(Günter Greil)



Page 1 of 3



ATTACHMENT

to certificate

No. Z10 15 02 39656 250

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 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
14: 14 mm
- VIII. Emitter or receiver
Blank: Set of emitter and receiver
E: Emitter
D: Receiver



Product Service

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



ТАМОЖЕННЫЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

Заявитель Общество с ограниченной ответственностью "Омрон Электроникс"

125040, Российская Федерация, г. Москва, ул. Правды, д. 26, тел. +74956489452,
факс +74956489451, E-mail: omron_russia@eu.omron.com, ОГРН 1067746976582

в лице Руководителя отдела логистики Перепелкиной Натальи Александровны,
действующего на основании Доверенности б/н от 28.10.2013 г.

заявляет, что Световые барьеры безопасности торговой марки "Omron", серии: F3x, F3xx, F3xxx, MSxxxx, MSxxxxx, где "x" – цифры от 0 до 9, буквы от A до Z, обозначающие исполнение изделия.

изготовитель: Фирма "OMRON CORPORATION", Shiokoji Horikawa, Shimogyo-ku, KYOTO, 600-8530, Япония

Заводы фирмы-изготовителя см. приложение № 1

Стандарты, нормативные документы: Европейская директива 2004/108/ЕС.

Код ТН ВЭД ТС: 8541409009

Серийный выпуск

соответствует требованиям

ТР ТС 020/2011 "Электромагнитная совместимость технических средств"

Декларация о соответствии принята на основании

Протокол испытаний № 4/01-12 от 13.01.2014 г. - ИЛ ООО "Микрон" (Аттестат аккредитации № РОСС RU.0001.21AB72 до 19.08.2016 г.), 143000, Московская область, г. Одинцово, ул. Маршала Жукова, д. 9. Сертификат системы менеджмента качества ISO 9001:2008 № RQA660983 от 01.06.2012 г., выданный ОССК "LRQA", Нидерланды.

Дополнительная информация

Условия хранения продукции в соответствии с ГОСТ 15150-69. Условия хранения конкретного изделия, срок хранения (службы) указываются в прилагаемой к продукции товаросопроводительной и/или эксплуатационной документации.

Декларация о соответствии действительна с даты регистрации по 12.01.2019 включительно.



Перепелкина Наталья Александровна

(инициалы и фамилия руководителя организации-заявителя или физического лица, зарегистрированного в качестве индивидуального предпринимателя)

Сведения о регистрации декларации о соответствии:

TS No. RU D-JP.AE30.B.01538

Регистрационный номер декларации о соответствии: ТС № RU Д-JP.АИ30.В.01538

Дата регистрации декларации о соответствии: 14.01.2014

ТАМОЖЕННЫЙ СОЮЗ

ПРИЛОЖЕНИЕ № 1 лист 1

К ДЕКЛАРАЦИИ О СООТВЕТСТВИИ ТС № RU Д-JP.АИ30.В.01538

Перечень предприятий изготовителей продукции, на которую распространяется действие декларации о соответствии, входящих в состав транснациональной компании

Полное наименование предприятия-изготовителя	Адрес (место нахождения)
"OMRON CORPORATION"	Shiokoji Horikawa, Shimogyo-ku, KYOTO, 600-8530, Япония;
"Omron Electronic Components (Shenzhen) Ltd."	Omron Industrial Park, Taiyang Village, Pingshan Town, Longgang District, Shenzhen 518118, Китай;
"Omron Electronics Manufacturing of Germany GmbH"	Carl-Benz-Str. 4,71154, Nufringen, Германия;
"OMRON Manufacturing of the Netherlands B.V."	Zilverenberg 2, 5234 GM' s – Hertogenbosch, Нидерланды;
"OMRON MALAYSIA SDN. BHD."	Lot 15, SS8/4 Sg.Way F.I.Z. 47300 P.J. Selangor, Малайзия;
"Omron Manufacturing of Indonesia (OMI)"	Lemahabang, Ejip Industrial Park, Plot 5C, Bekasi, 17550, Индонезия;
"OMRON ELECTRONICS S.P.A."	Viale Certosa, 49 20149 Milano, Италия;
"Omron Electronics Iberia S.A.U."	с/Hernández de Tejada, 9 28027 Madrid, Испания.
"Omron Electronics Ltd"	Opal Drive, Fox Milne, Milton Keynes, MK15 0DG, Соединенное Королевство Великобритании и Северной Ирландии;
"YASKAWA Electric UK Limited"	1 Hunt Hill Orchardton Woods Cumbernauld Scotland, G68 9LF, Соединенное Королевство Великобритании и Северной Ирландии.




подпись

Перепелкина Наталья
Александровна
инициалы, фамилия

国家铸造锻压机械质量监督检验中心

NATIONAL FOUNDRY & METALFORMING MACHINERY QUALITY TEST &
SUPERVISION CENTER

产品检验证书

QUALITY TEST CERTIFICATE

编号: No:20160301

兹证明 OMRON SCIENTIFIC TECHNOLOGIES INCORPORATED

地址: 6550 Dumbarton Circle Fremont CA 94555 USA

生产的 F3SG-4RA *30* 安全光幕的主要性能符合国家标准:
GB4584-2007.

This is to certify that the Main performance specification of
F3SG-4RA*30* Light Curtain of OMRON SCIENTIFIC
TECHNOLOGIES INCORPORATED have been found to
conform to national standard: GB4584-2007.

本证书仅对试验样品有效。检验报告编号: DJ20160301。

This certificate is only valid to the tested product. Test
reporter No: DJ20160301.

本证书有效期至: 2019年3月10日

This certificate is valid until: Mar 10, 2019.

发证日期: 2016年3月11日

签发:

Date of issue: Mar 11, 2016

Issued by:



Huang Tichun

国家铸造锻压机械质量监督检验中心

NATIONAL FOUNDRY & METALFORMING MACHINERY QUALITY TEST & SUPERVISION CENTER

产品检验证书

QUALITY TEST CERTIFICATE

编号: No:20160302

兹证明 OMRON SCIENTIFIC TECHNOLOGIES INCORPORATED

地址: 6550 Dumbarton Circle Fremont CA 94555 USA

生产的 F3SG-4RA *14* 安全光幕的主要性能符合国家标准:
GB4584-2007.

This is to certify that the Main performance specification of
F3SG-4RA*14* Light Curtain of OMRON SCIENTIFIC
TECHNOLOGIES INCORPORATED have been found to
conform to national standard: GB4584-2007.

本证书仅对试验样品有效。检验报告编号: DJ20160302。

This certificate is only valid to the tested product. Test
reporter No: DJ20160302.

本证书有效期至: 2019年3月10日

This certificate is valid until: Mar 10, 2019.

发证日期: 2016年3月11日

签发:

Date of issue: Mar 11, 2016

Issued by: Huang Jinhui



国家铸造锻压机械质量监督检验中心

NATIONAL FOUNDRY & METALFORMING MACHINERY QUALITY TEST &
SUPERVISION CENTER

产品检验证书

QUALITY TEST CERTIFICATE

编号: No:20160303

兹证明 OMRON SCIENTIFIC TECHNOLOGIES INCORPORATED

地址: 6550 Dumbarton Circle Fremont CA 94555 USA

生产的 F3SG-4RE *14* 安全光幕的主要性能符合国家标准:
GB4584-2007.

This is to certify that the Main performance specification of
F3SG-4RE*14* Light Curtain of OMRON SCIENTIFIC
TECHNOLOGIES INCORPORATED have been found to
conform to national standard: GB4584-2007.

本证书仅对试验样品有效。检验报告编号: DJ20160303。

This certificate is only valid to the tested product. Test
reporter No: DJ20160303.

本证书有效期至: 2019年3月10日

This certificate is valid until: Mar 10, 2019.

发证日期: 2016年3月11日

签发:

Date of issue: Mar 11, 2016

issued by:



Handwritten signature: Huang Juchun

国家铸造锻压机械质量监督检验中心

NATIONAL FOUNDRY & METALFORMING MACHINERY QUALITY TEST &
SUPERVISION CENTER

产品检验证书

QUALITY TEST CERTIFICATE

编号: No:20160304

兹证明 OMRON SCIENTIFIC TECHNOLOGIES INCORPORATED

地址: 6550 Dumbarton Circle Fremont CA 94555 USA

生产的 F3SG-4RE *30* 安全光幕的主要性能符合国家标准:
GB4584-2007.

This is to certify that the Main performance specification of
F3SG-4RE*30* Light Curtain of OMRON SCIENTIFIC
TECHNOLOGIES INCORPORATED have been found to
conform to national standard: GB4584-2007.

本证书仅对试验样品有效。检验报告编号: DJ20160304.

This certificate is only valid to the tested product. Test
reporter No: DJ20160304.

本证书有效期至: 2019 年 3 月 10 日

This certificate is valid until: Mar 10, 2019.

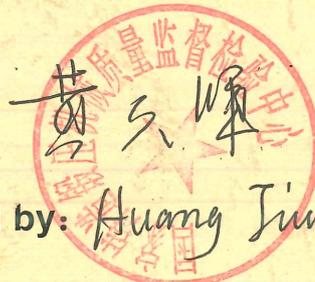
发证日期: 2016 年 3 月 11 日

签发:

Date of issue: Mar 11, 2016

Issued by:

Huang Jinhui





NIPF.E199694 Active Opto-electronic Protective Devices

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Active Opto-electronic Protective Devices

[See General Information for Active Opto-electronic Protective Devices](#)

OMRON CORP

E199694

SAFETY STANDARDS GROUP
IAB GLOBAL QUALITY CENTER
SHIOKOJI HORIKAWA
SHIMOGYO-KU, KYOTO 600-8530 JAPAN

Control unit, Model F3SP-B1P.

Type 2 or type 4 light curtain systems+, emitters and receivers, Model F3SJ, followed by Blank or 2, followed by E or B, followed by 0185-2065, followed by N, P or -, followed by 25, may be followed by L or D, may be followed by additional suffixes.

Type 4 control unit, Model+ F3SX followed by N, E, H, M, NR, ER, HR, MR, followed by R, R1, R2, L1, L2, L4, M1, D1, P1, P2 and B1, followed by additional suffixes.

Type 2 single beam system, Model+ E3FS-10, for use only with the Model F3SX control unit.

Type 2 or type 4 light curtain, Models+ F3SJ-A or F3SJ-2A, followed by 0245-2495, followed by P or N, followed by 14, 20, 25, 30, 35, 55 or 65, may be followed by L or D, may be followed by TS, 01TS, 01T, may be followed by additional suffixes.

Model F3SJ-AM+, followed by 2-4, followed by P or N, followed by 300, 400 or 500, may be followed by L or D, may be followed by additional suffixes.

Type 2 single beam sensor, Model + E3ZS followed by T, followed by 8, followed by 1, followed by A, followed by D, L or blank, followed by additional suffixes.

Type 4 light curtain systems+, emitters and receivers, Model F3SN-A followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters; Model F3SH-A followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SN-B followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SH-B followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 and type 4 light curtain system, Model F3SR followed by 2 or 4, followed by 30, followed by B, followed by four numbers, may be followed by L or D, may be followed by additional numbers and/or letters.

Type 4 and type 2 light curtain system, Model F3SG, followed by 2 or 4, followed by R; followed by E or A, followed by 0160-2510, followed by P, N or -, followed by 30, 14, may be followed by L or D, may be followed by additional suffixes.

End cap accessory, Model F39, followed by LP, BT or BTLP.

+ Also complies with UL 1998, the Standard for Safety Related Software.

OMRON

Trademark and/or Tradename:

[Last Updated](#) on 2014-09-11



NIPF7.E199694

Active Opto-electronic Protective Devices Certified for Canada

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Active Opto-electronic Protective Devices Certified for Canada

[See General Information for Active Opto-electronic Protective Devices Certified for Canada](#)**OMRON CORP**

E199694

SAFETY STANDARDS GROUP
 IAB GLOBAL QUALITY CENTER
 SHIOKOJI HORIKAWA
 SHIMOGYO-KU, KYOTO 600-8530 JAPAN

Control unit, Model F3SP-B1P.

Type 2 or type 4 light curtain systems+, emitters and receivers, Model F3SJ, followed by Blank or 2, followed by E or B, followed by 0185-2065, followed by N, P or -, followed by 25, may be followed by L or D, may be followed by additional suffixes.

Type 4 control unit, Model+ F3SX, followed by N, E, H, M, NR, ER, HR, MR, followed by R, R1, R2, L1, L2, L4, M1, D1, P1, P2 and B1, followed by additional suffixes.

Type 2 single beam system, Model+ E3FS-10, for use only with the Model F3SX control unit.

Type 2 or type 4 light curtain, Models+ F3SJ-A or F3SJ-2A, followed by 0245-2495, followed by P or N, followed by 14, 20, 25, 30, 35, 55 or 65, may be followed by L or D, may be followed by TS, 01TS, 01T, may be followed by additional suffixes.

Model F3SJ-AM+, followed by 2-4, followed by P or N, followed by 300, 400 or 500, may be followed by L or D, may be followed by additional suffixes.

Type 2 single beam sensor, Model + E3ZS followed by T, followed by 8, followed by 1, followed by A, followed by D, L or blank, followed by additional suffixes.

Type 4 light curtain systems+, emitters and receivers, Model F3SN-A followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters; Model F3SH-A followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SN-B followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SH-B followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 and type 4 light curtain system, Model F3SR followed by 2 or 4, followed by 30, followed by B, followed by four numbers, may be followed by L or D, may be followed by additional numbers and/or letters.

Type 4 and type 2 light curtain system, Model F3SG, followed by 2 or 4, followed by R; followed by E or A, followed by 0160-2510, followed by P, N or -, followed by 30, 14, may be followed by L or D, may be followed by additional suffixes.

End cap accessory, Model F39, followed by LP, BT or BTLP.

+ Also complies with UL 1998, the Standard for Safety Related Software.

OMRON and/or **ST**

Trademark and/or Tradename:

[Last Updated](#) on 2014-09-11

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OMRON CANADA, INC. • HEAD OFFICE

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