



EC Declaration of Conformity

We hereby declare that the following products are in conformity with the requirements of the following EC Directives:

Product:	Single-beam Safety Sensor (AOPD Type2 ,With F3SX)	
Type:	E3ZS-T81A	
Title and No. of Directive:	EMC Directive	2004/108/EC
	Machinery Directive	2006/42/EC

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

EMC Directive:

EMI (Electromagnetic Interference):

EN 55011:2009/A1:2010

EMS (Electromagnetic Susceptibility):

EN 61496-1:2004/A1: 2008

Machinery Directive:

Electro-sensitive protective equipment:

EN 61496-1:2004/A1: 2008

Active opto-electronic protective devices:

IEC 61496-2: 2006

Description of Product:

The E3ZS-T81A, with the F3SX, is an electro-sensitive device designed specifically to detect persons in order to ensure their safety.

The E3ZS-T81A, with the F3SX, is an ESPE Type 2 device according to EN61496-1 and AOPD Type 2 device according to IEC61496-2. The device can be used as a safeguard for personal protection at machinery and other hazardous areas, which require safeguards intended for up to Category 2 and "PL d" according to EN ISO 13849-1:2008.

Certificate:

Machinery Directive - Certificate for EC Type-Examination (No.: M6A 10 04 39656 205)

Notified Body: TÜV SÜD Product Service GmbH

Address: Zertifizierstelle, Ridlerstrasse 65, 80339, München, Germany

Notified Body identification No.: 0123

Responsible person for documentation:

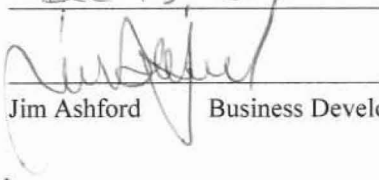
Hugo Sintnicolaas OMRON EUROPE B.V.

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: Dec 13, 2011

Signed: 
Jim Ashford Business Development Dept. Manager

Representative in EU:

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

Date: 16.12.2011

Signed: 
Hugo Sintnicolaas European Manufacturing and Quality Manager

Products Covered

Type: E3ZS-T81A Series

E3ZS - T81A - () - () () () ()
 I II

- I : L, D, or blank
- II : Blank, or additional letter(s), number(s), and/or dash



EC-Type Examination Certificate

No. M6A 10 04 39656 205

Holder of Certificate: Omron Corporation

Shiokoji Horikawa, Shimogyo-ku
Kyoto
600-8530 JAPAN

Product: Electro-Sensitive Protective Equipment
(AOPD) Type 2

Model(s): E3ZS-T81A

Parameters:

Power supply:	24Vdc (supplied by Safety Controller F3SX)
Nominal current:	15mA Emitter, 20mA Receiver
Operating temperature:	-10°C ... +55°C
Protection class:	IP67
Conditions:	Use only with certified control unit F3SX

This EC Type Examination Certificate is issued according to Article 12(3) b or 12(4) a of Council Directive 2006/42/EC relating to machinery. It confirms that the listed Annex-IV equipment complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Test report no.: 70035164

Valid until: 2015-04-05

Date, 2010-04-15

(Alfred Beer)



TÜV SÜD Product Service GmbH is Notified Body according to Council Directive 2006/42/EC relating to machinery, notified by publication in the Official Journal of the EC with identification No. 0123.

Page 1 of 1



CERTIFICATE

No. Z10 10 04 39656 208

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

Factory(ies): 48774, 56891

Certification Mark:



Product: **Electro-Sensitive Protective Equipment (AOPD) Type 2**

Model(s): **E3ZS-T81A**

Parameters:

Power supply:	24Vdc (supplied by Safety Controller F3SX)
Nominal current:	15mA Emitter, 20mA Receiver
Operating temperature:	-10°C ... +55°C
Protection class:	IP67

Conditions: **Use only with certified control unit F3SX**

Tested according to:

- ISO 13849-1:2006 (Category 2, Pl d)
- IEC 61496-1:2008
- IEC 61496-2/Ed.2:2006
- EN 61496-1/A1:2008
- CLC/TS 61496-2:2006
- EN 954-1:1996 (Category B, 1-2)
- EN 55011/A2:2002
- EN 61000-6-2:2001
- EN 50178:1997

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.: 70035164


(Alfred Beer)

Date, 2010-04-15



Page 1 of 1



NIPF.E199694 Active Opto-electronic Protective Devices

[Page Bottom](#)

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 4 light curtain systems, Model+ F3S-A followed by 08, 16, 24, 32, 40 or 48, followed by 1 or 2, may be followed by P or S, may be followed by L or D, may be followed by additional numbers and/or letters.

Type 2 or 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, Model+ 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.

ESZS-T81A

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.

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

OMRON

Trademark and/or Tradename:

[Last Updated](#) on 2011-11-17

[Questions?](#)[Print this page](#)[Notice of Disclaimer](#)[Page Top](#)



NIPF7.E199694

Active Opto-electronic Protective Devices Certified for Canada

[Page Bottom](#)

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 4 light curtain systems, Model+ F3S-A, followed by 08, 16, 24, 32, 40 or 48, followed by 1 or 2, may be followed by P or S, may be followed by L or D, may be followed by additional numbers and/or letters.

Type 2 or 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, Model+ 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.

ESZS-T81A

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, Models 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.

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

OMRON and/or **SU**

Trademark and/or Tradename:

[Last Updated](#) on 2011-11-17

[Questions?](#)

[Print this page](#)

[Notice of Disclaimer](#)

[Page Top](#)

EC DECLARATION OF CONFORMITY

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

Single-beam Safety Sensor(PDF-D) Type: E3ZS-T81A Series

No. of Directive : 2006/42/EC

Title of Directive : Machinery

No. of Directive : 2004/108/EC

Title of Directive : Electromagnetic Compatibility

The above referenced products conform to the following standards:

Safety of machinery:

EN60947-5-3/A1: 2005

Electromagnetic compatibility:

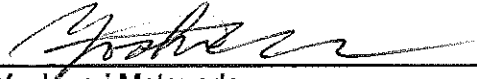
EN60947-5-3/A1: 2005

Description of Product

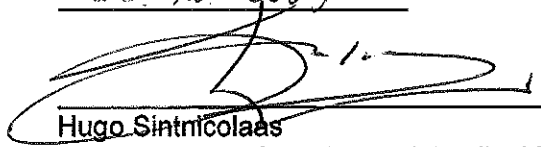
The E3ZS-T81A series are a proximity device with an enhanced resistance to failure.

The E3ZS-T81A series are PDF-D according to EN60947-5-3.

Manufacturer

Name : Safety Division
Industrial Automation company
Omron Corporation
Address : Shiokoji-horikawa, Shimogyo-ku, Kyoto 600-8530 JAPAN
Date : 28.12.2009
Signed : 
Yoshinori Matsueda
Business Development Dept. Manager

Representative in EU

Name : OMRON EUROPE B.V.
Address : Zilverenberg 2, 5234 GM, 's-Hertogenbosch,
The Netherlands
Date : 22.12.2009
Signed : 
Hugo Sintricolaas
European Manufacturing and Quality Manager

Products covered

Type: E3ZS-T81A Series

E3ZS-T81A- $\frac{(\quad)}{\text{I}}$ - $\frac{(\quad)}{\text{II}}$

I : Blank, D or L

II : Blank, 1 or 2



CERTIFICATE

No. Z10 10 04 39656 207

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

Factory(ies): 48774, 56891

Certification Mark:



Product: **Proximity switch
(PDF-D)**

Model(s): **E3ZS-T81A, E3ZS-T81A-1, E3ZS-T81A-2**

Parameters:

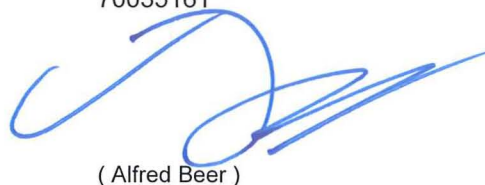
Power supply:	12 - 24Vdc \pm 10%
Nominal current:	max. 15mA Emitter max. 20mA Receiver
Operating temperature:	-10°C...+55°C
Protection class:	IP67

Tested according to:

- 2006/42/EC
- EN 60947-5-3/A1:2005
- IEC 60947-5-3/A1:2005
- EN 954-1:1996 (Category B, 1)
- EN 55011/A2:2002
- EN 61000-6-2:2005
- EN 50178:1997
- ISO 13849-1:2006 (Cat.1 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.: 70035161



(Alfred Beer)

Date, 2010-04-15

Page 1 of 1



OMRON AUTOMATION AND SAFETY • THE AMERICAS HEADQUARTERS • Chicago, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron247.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE

México DF • 52.55.59.01.43.00 • 01-800-226-6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE

Apodaca, N.L. • 52.81.11.56.99.20 • 01-800-226-6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE

São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br

OMRON ARGENTINA • SALES OFFICE

Cono Sur • 54.11.4783.5300

OMRON CHILE • SALES OFFICE

Santiago • 56.9.9917.3920

OTHER OMRON LATIN AMERICA SALES

54.11.4783.5300

OMRON EUROPE B.V. • Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. • +31 (0) 23 568 13 00 • www.industrial.omron.eu

Authorized Distributor:

Automation Control Systems

- Machine Automation Controllers (MAC) • Programmable Controllers (PLC)
- Operator interfaces (HMI) • Distributed I/O • Software

Drives & Motion Controls

- Servo & AC Drives • Motion Controllers & Encoders

Temperature & Process Controllers

- Single and Multi-loop Controllers

Sensors & Vision

- Proximity Sensors • Photoelectric Sensors • Fiber-Optic Sensors
- Amplified Photomicrosensors • Measurement Sensors
- Ultrasonic Sensors • Vision Sensors

Industrial Components

- RFID/Code Readers • Relays • Pushbuttons & Indicators
- Limit and Basic Switches • Timers • Counters • Metering Devices
- Power Supplies

Safety

- Laser Scanners • Safety Mats • Edges and Bumpers • Programmable Safety Controllers • Light Curtains • Safety Relays • Safety Interlock Switches