

DECLARATION OF CONFORMITY

according to EN ISO/IEC 17050-1

We OMRON Corporation, Industrial Components Div.H.Q.,
Industrial Sensors Division
Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 JAPAN

declare under our sole responsibility that the product:

Photoelectric Switch

Type : E3FA-DP25-1

to which this declaration relates is in conformity with the following standards:

Electromagnetic Compatibility

EMS (Electromagnetic Susceptibility)

Electrostatic discharge	EN 60947-5-2:2007 / IEC 61000-4-2:2008
Radiated, radio-frequency electromagnetic field	EN 60947-5-2:2007 / IEC 61000-4-3:2010
Electrical fast transient / burst	EN 60947-5-2:2007 / IEC 61000-4-4:2012
Conducted disturbances	EN 60947-5-2:2007 / IEC 61000-4-6:2008

EMI (Electromagnetic Interference)

Radiated emission	EN 60947-5-2:2007 / IEC CISPR11:2010
Conducted emission	EN 60947-5-2:2007 / IEC CISPR11:2010

Note:

This product is not a safety component for ensuring safety of persons which is defined in EC Directive . 91/368/EEC and covered by separate European standards.

Kyoto, Japan

Date: 19/1/2015



Hiroaki Nakanishi
Division Manager

Place of manufacture

OMRON Corporation, Industrial Components Div. H.Q., Industrial Sensors Division
Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 JAPAN

Technical data

Intended Environment : Industrial

1	Type Designation:	: E3FA-DP25-1
2	Sensing means	: Photoelectric
3	Rated operation voltage(s) (Ue)	: 10~30VDC ($\pm 10\%$ Ripple(p-p) include)
4	Rated operation current (Ie)	: 25mA.max
5	Control output	: 100mA.max-Transistor Output
6	Utilization category	: DC-12 (Resistive);
7	Ambient air temperature	: -25 to 55°C
8	Short-circuit protection type rating	: Inner provided
9	Degree of protection(EN60947-1 App.C)	: IP67
10	Pollution degree	: 3(Industrial Environment)
11	Dielectric withstand voltage	: 500 V, 1 minute (Between Live parts and Case)
12	Electromagnetic compatibility (EMC)	
a)	Electrostatic discharge	: Direct electric discharge, Air : +/-8kV Direct electric discharge, Contact : +/-6kV
b)	Radiated, radio-frequency electromagnetic field	: 10 V/m
c)	Electrical fast transient / burst	: 2 kV (Clamp)
e)	Conducted disturbances	: 10 V
g)	Radiated Emission:	: Class A, Group 1
h)	Conducted Emission	: Class A, Group 1

Nomenclature

Type E3FA-DP25-1

E3FA - () () () () - ()
I **II** **III** **IV** **V** **VI**

- I - E3FA : Built-in amplifier photoelectric switch(Straight type)
- II - Sensing method
D : Diffuse reflective
- III - Output type
P : PNP output type
- IV - Connected type
2 : M12 connector 4-pole type
- V - Sensing distance(Light source is infrared LED)
Sensing method is
D : 5: 300mm
- VI - Special specification
1 : Differential travel changed type