



EU27 Declaration of Conformity

Application of Council Directive(s):

- Electromagnetic Compatibility Directive (EMCD) – 2014/30/EU
- Low Voltage Directive (LVD) – 2014/35/EU
- European Pressure Equipment Directive (PED) – 2014/68/EU
- Machinery Directive – 2006/42/EC
- Restriction of Hazardous Substances Directive (RoHS2) – 2011/65/EU ⁽⁷⁾
- Restriction of Hazardous Substances Directive (RoHS3) – (EU) 2015/863⁽⁷⁾
- LSIT or LSFI Exemption Restriction of Hazardous Substances Directive (RoHS3) – (EU) 2015/863
- Waste Electrical and Electronic Equipment – Directive 2012/19/EU



Standard(s) to which conformity is declared:

- EN 61326-1:2013 – (EMC)
- EN 61326-2-3:2013 – (EMC)
- EN 61010-1:2010 + AMD 1:2016 (Ed 3) – (Safety)
- EN 61010-1:2010+A1:2019 – (Safety)
- IEC 60730-1:2013/AMD2:2020 – (Safety)
- EN 60825-1:2014 Safety of Laser products - Part 1: Equipment classification and requirements
- IEC 62471:2006 Photobiological Safety of Lamps and Lamp Systems
- EN ISO 12100:2010 Safety of Machinery – General Principles of Design – Risk Assessment and Risk Reduction
- EN 60204-1:2016 Safety of Machinery – Electrical Equipment of Machines - Part 1: General Requirements
- EN 60204-33:2010 Safety of Machinery – Electrical Equipment of Machines – Part 33: Requirements for Semiconductor Fabrication Machinery
- EN 60204-33:2011 Safety of Machinery – Electrical Equipment of Machines – Part 33: Requirements for Semiconductor Fabrication Machinery
- EN ISO 13849-1:2015 Safety of Machinery – Safety Related Parts of Control Systems – Part 1: General Principles for Design
- EN ISO 11553-1:2008 Safety of Machinery- Laser Processing Machinery – Part 1: General Safety Requirements
- EN ISO 11553-1:2020 Safety of Machinery- Laser Processing Machinery – Part 1: General Safety Requirements

Emissions:

- CISPR 11:2015 Industrial, Scientific and Medical Equipment Radio-Frequency Disturbance Characteristics - Limits and Methods of Measurement
- CISPR 11:2015+A1:2016+A2:2019 Industrial, Scientific and Medical Equipment Radio-Frequency Disturbance Characteristics - Limits and Methods of Measurement
- IEC 61000-3-2:2018 EMC/Limits for Harmonic Current Emission ⁽¹⁾
- EN 61000-3-2:2019 EMC/Limits for Harmonic Current Emission ⁽¹⁾
- IEC 61000-3-3:2013 + AMD1:2017 EMC/Limitations of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems ⁽²⁾
- IEC 61000-3-3:2013 + AMD1:2017 EMC/Limitations of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems ⁽³⁾
- EN 61000-3-3: 2013/A1: 2019 EMC/Limitations of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems
- EN 55011: 2016 +A1:2017 ⁽⁴⁾ Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
- EN 55011:2016+A11:2020 Industrial, Scientific and Medical Equipment Radio-Frequency Disturbance Characteristics - Limits and Methods of Measurement
- BS EN 55011:2016+A2:2021 Industrial, Scientific and Medical Equipment Radio-Frequency Disturbance Characteristics - Limits and Methods of Measurement



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- EN 55032:2015 Electromagnetic compatibility of multimedia equipment - Emission Requirements
- EN 55032:2015+A11:2020 Electromagnetic compatibility of multimedia equipment. Emission Requirements
- IEC 61000-6-4: 2018 Emission standard for industrial environments
- EN IEC 61000-6-4:2019 - Electromagnetic compatibility (EMC). Generic standards. Emission standard for industrial environments

Immunity:

- IEC 61000-4-2:2008 EMC/Electrostatic Discharge Immunity Test
- EN 61000-4-2:2009 EMC/Electrostatic Discharge Immunity Test
- IEC 61000-4-3:2006 2006+AMD1:2007+AMD2:2010 EMC/Radiated Radio - Frequency Electromagnetic Field Immunity Test
- IEC 61000-4-3:2020 PRV EMC/Radiated Radio Frequency Electromagnetic Field Immunity Test
- EN 61000-4-3:2006+A2:2010 EMC/Radiated Radio Frequency Electromagnetic Field Immunity Test
- IEC 61000-4-4:2012 EMC/Electrical Fast Transient/Burst Immunity Test
- EN 61000-4-4:2012 EMC/Electrical Fast Transient/Burst Immunity Test
- IEC 61000-4-5:2014 + AMD 1:2017 EMC/Surge Immunity Test ⁽³⁾
- EN 61000-4-5:2014+A1:2017 EMC/Surge Immunity Test
- IEC 61000-4-6:2013 EMC/Conducted Disturbances induced by Radio Frequency Fields Immunity Test
- EN 61000-4-5:2014 EMC/Conducted Disturbances induced by Radio Frequency Fields Immunity Test
- IEC 61000-4-8:2009 EMC/Power Frequency Magnetic Field Immunity Test
- EN 61000-4-8:2010 EMC/Power Frequency Magnetic Field Immunity Test
- IEC 61000-4-11:2004 + AMD 1:2017 EMC/Voltage Dips, Short Interruptions and Variations Immunity Test ⁽⁵⁾
- IEC EN 61000-4-11:2020 EMC/Voltage Dips, Short Interruptions and Variations Immunity Test
- IEC EN 61000-4-34:2005+AMD1:2009 EMC/Voltage Dips, Short Interruptions and Variations Immunity Test ⁽⁵⁾
- IEC 61000-6-2:2016 Immunity standard for industrial environments
- IEC EN 61000-6-2:2019 Immunity standard for industrial environments

Manufacturers Name: MKS Instruments, Inc., 2 Tech Drive, Andover, MA 01810 USA


Authorized Representatives Name & Location: Instruments and Motion, Bozeman, MT 59715 USA

Equipment Type/Description: Fiber-Optic Detectors

Model Number(s) ⁽⁶⁾: 1014, 1414, 1024, 1444

The object of the declaration described above is in conformity with the relevant Community harmonization legislation. MKS product conforms to the above Directive(s) and Standard(s) only when installed in accordance with manufacturer’s specifications. This declaration has been issued under the sole responsibility of the manufacturer.

Date: 5/25/2022

Signature: 
Full Name: **Reuven Silverman**
Title: **Site General Manager**

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- 1) Applicable to AC powered product only. Class B
 - 2) Applicable to AC powered product; DC powered connections must not connect to a D.C. distribution network; I/O Signal and Control Lines must be less than 30m and not exit the building.
 - 3) Applicable to AC powered product; DC powered connections and may connect to a D.C. distribution network.
 - 4) Class A, Group 2
 - 5) Applicable to AC powered product only.
 - 6) Compliance of the above model numbers requires the use of a braided shielded cable properly terminated at both ends – if so noted in the MKS Instruction Manual.
 - 7) RoHS Directive has to be checked for in scope products; cannot CE mark without compliance to RoHS. RoHS Directive can be unchecked only for systems which MKS sells which qualify for “Large Scale Industrial Tool” exclusion.