



**OMRON SCIENTIFIC TECHNOLOGIES INCORPORATED**  
*EC Declaration of Conformity*

OMRON Scientific Technologies Incorporated (at 6550 Dumbarton Circle, Fremont, CA 94555-3605, U.S.A.), hereby declares that the following series manufactured products listed below conform with the Essential Health and Safety Requirements (EHSRs) of the European Machinery Directive (2006/42/EC), with the requirements of the Low Voltage Directive (2006/95/EC), and with the relevant requirements of the stated standards listed below. Materials used in the manufacture of these products are RoHS2 compliant in accordance with Directive (2011/65/EU).

**Devices: Emergency Stop Safety Rope Switches**  
**Identification: ER-Series Types: ER1022, ER1032, ER6022, ER6022-SS, ER5018**

(The products will be marked according to the machinery directive. The overall machine must comply with the machinery directive)

EN 60947-1:2007:+A1:2011 – Low-voltage switchgear and controlgear – General rules.

EN 60947-5-1:2004:+A1:2009 – Low voltage switchgear and control gear – Part 5-1: Control circuit devices and switching elements – Requirements for proximity devices with defined behavior under fault conditions – electromechanical control circuits.


EN 60947-5-5:1997:+A1:2005+A11:2013 – Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements – Electrical emergency stop device with mechanical latching function.

EN 60204-1:2006:+A1:2009 – Safety of Machinery, Electrical equipment of machines – Part 1: General requirements.

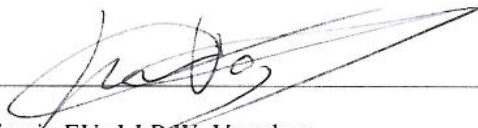
EN ISO 13850:2008 – Safety of machinery – Emergency stop – Principles for design.

EN ISO 13849-1:2008:+AC:2009 - Safety of machinery – Safety-related parts of control systems, Part 1: General principle for design.

Date 2 Sept. 2014  
Fremont, CA, 94555, USA

Signed   
Martin D. Krikorian  
Quality Director  
(Authorized Signer of Declarations of Conformity)  
OMRON Scientific Technologies, Inc.

Date 18/09/14  
's-Hertogenbosch - The Netherlands

Signed   
Representative in EU: J.J.P.W. Vogelaar  
European Quality & Environment Operations Manager  
Omron Europe B.V  
Zilverenberg 2, 5234 GM, 's-Hertogenbosch,  
The Netherlands



# ZERTIFIKAT CERTIFICATE

Nr./No. 968/EZ 350.00/09

Prüfgegenstand Product tested	Safety Rope Switches	Lizenznehmer License Holder	OMRON Scientific Technologies Inc. 6550 Dumbarton Circle Fremont CA 94555-3605 United States of America
Typbezeichnung Type designation	ER5018 ER6022 (-SS) ER1022 ER1032	Verwendungs- zweck Intended application	Safety Rope Switches for the use in safety related applications.
Prüfgrundlagen Codes and standards forming the basis of testing	EN 60947-5-1:2004 EN 60947-5-5:1997 + A1:2005 ISO 13850:2006		
Prüfungsergebnis Test results	The Safety Rope Switches are suitable for safety related applications in accordance with the above listed standards.		
Besondere Bedingungen Specific requirements	none		



Der Prüfbericht-Nr.: 968/EZ 350.00/09 vom 27.02.2009 ist Bestandteil dieses Zertifikates.

Der Inhaber eines für den Prüfgegenstand gültigen Genehmigungsausweises ist berechtigt, die mit dem Prüfgegenstand übereinstimmenden Erzeugnisse mit dem abgebildeten Prüfzeichen zu versehen.

The test report-no.: 968/EZ 350.00/09 dated 2009-02-27 is an integral part of this certificate.

The holder of a valid licence certificate for the product tested is authorised to affix the test mark shown opposite to products which are identical with the product tested.

**TÜV Rheinland Industrie Service GmbH**  
Geschäftsfeld ASI  
Automation, Software und Informationstechnologie  
Am Grauen Stein, 51105 Köln  
Postfach 91 09 51, 51101 Köln

2009-02-27

Datum/Date

Firmenstempel/Company stamp

Dipl.-Ing. Klaus Kemp



## NKCR.E195653 Auxiliary Devices

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### Auxiliary Devices

[See General Information for Auxiliary Devices](#)

**OMRON SCIENTIFIC TECHNOLOGIES INC**  
6550 DUMBARTON CIR  
FREMONT, CA 94555 USA

E195653

#### Investigated to ANSI/UL 508

**Actuator switches** Model(s) MFS-11P11, MFS-11P11CC, MFS-11P20, MFS-11P20CC

**Actuators** Model(s) CM-S11ACT, CM-S1ACT, CM-S221ACT, CM-S2ACT, CM-S31ACT, CM-S321ACT, CM-S3ACT, CM-S421ACT, CM-S521ACT, CM-S5ACT, CM-S621ACT, CM-S6ACT, MA-10ACT, MA-11ACT, MA-12ACT, MA-13ACT, MA-14ACT, MA-15ACT, MA-16ACT, MA-1ACT, MA-20ACT, MA-21ACT, MA-2ACT, MA-3ACT, MA-4ACT, MA-5ACT, MA-6ACT, MA-7ACT, MA-9ACT, MA-S20ACT, MA-S21ACT, MA-S2ACT, MA-S34ACT, MA-S35ACT, MA-S36ACT

**Control units** Model(s) CM-S21-24V, CM-S41-100V, CM-S41-24V

**Extender modules** Model(s) CM-SE-24V

**Grip-type enabling switches** Model(s) ESD-5020-20, ESD-5020-21

**I-Rope switches** Model(s) ER-1022, ER-1032, ER-5018, ER-6022, ER-6022-SS

**Industrial control switches** Model(s) SCC-1224, SCC-2124, SCC-2224

**Interlock relays** Model(s) MC-K, MF, SMT-01, SMT-02, SMT-03, SR-0, SR-05, SR-06, SR-07, SR-09, SR-11, SR-12, SR-14, SR-15, SR-16, SR-8

**Interlock switches** Model(s) T-5007, T-5009, T-5009-6

**Limit switches** Model(s) SL-AL11CC, SL-AL11M, SL-AL11N, SL-AL21CC, SL-AL21M, SL-AL21MCC, SL-AL21MM, SL-AL21MN, SL-AL21N, SL-AL30CC, SL-AL30M, SL-AL30N, SL-MAL11CC, SL-MAL11M, SL-MAL11N, SL-MAL21CC, SL-MAL21M, SL-MAL21MCC, SL-MAL21MM, SL-MAL21MN, SL-MAL21N, SL-MAL30CC, SL-MAL30M, SL-MAL30N, SL-MP11CC, SL-MP11M, SL-MP11N, SL-MP21CC, SL-MP21M, SL-MP21MCC, SL-MP21MM, SL-MP21MN, SL-MP21N, SL-MP30CC, SL-MP30M, SL-MP30N, SL-MRL11CC, SL-MRL11M, SL-MRL11N, SL-MRL21CC, SL-MRL21M, SL-MRL21MCC, SL-MRL21MM, SL-MRL21MN, SL-MRL21N, SL-MRL30CC, SL-MRL30M, SL-MRL30N, SL-MRL30M, SL-MRL30N, SL-MRLS11CC, SL-MRLS11M, SL-MRLS11N, SL-MRLS21CC, SL-MRLS21M, SL-MRLS21MCC, SL-MRLS21MM, SL-MRLS21MN, SL-MRLS21N, SL-MRLS30CC, SL-MRLS30M, SL-MRLS30N, SL-MRP11CC, SL-MRP11M, SL-MRP11N, SL-MRP21CC, SL-MRP21M, SL-MRP21MCC, SL-MRP21MM, SL-MRP21MN, SL-MRP21N, SL-MRP30CC, SL-MRP30M, SL-MRP30N, SL-MSR11CC, SL-MSR11M, SL-MSR11N, SL-MSR21CC, SL-MSR21M, SL-MSR21MCC, SL-MSR21MM, SL-MSR21MN, SL-MSR21N, SL-MSR30CC, SL-MSR30M, SL-MSR30N, SL-MTA11CC, SL-MTA11M, SL-MTA11N, SL-MTA21CC, SL-MTA21M, SL-MTA21MCC, SL-MTA21MM, SL-MTA21MN, SL-MTA21N, SL-MTA30CC, SL-MTA30M, SL-MTA30N, SL-P11CC, SL-P11M, SL-P11N, SL-P21CC, SL-P21M, SL-P21MCC, SL-P21MM, SL-P21MN, SL-P21N, SL-P30CC, SL-P30M, SL-P30N, SL-RLH11CC, SL-RLH11M, SL-RLH11N, SL-RLH21CC, SL-RLH21M, SL-RLH21MCC, SL-RLH21MM, SL-RLH21MN, SL-RLH21N, SL-RLH30CC, SL-RLH30M, SL-RLH30N, SL-RLO11CC, SL-RLO11M, SL-RLO11N, SL-RLO21CC, SL-RLO21M, SL-RLO21MCC, SL-RLO21MM, SL-RLO21MN, SL-RLO21N, SL-RLO30CC, SL-RLO30M, SL-RLO30N, SL-RLS11CC, SL-RLS11M, SL-RLS11N, SL-RLS21CC, SL-RLS21M, SL-RLS21MCC, SL-RLS21MM, SL-RLS21MN, SL-RLS21N, SL-RLS30CC, SL-RLS30M, SL-RLS30N, SL-RP11CC, SL-RP11M, SL-RP21MCC, SL-RP21MM, SL-RP21MN, SL-RP30CC, SL-RP30M, SL-RP30N, SL-RR11CC, SL-RR11M, SL-RR11N, SL-RR21CC, SL-RR21M, SL-RR21MCC, SL-RR21MM, SL-RR21MN, SL-RR21N, SL-RR30CC, SL-RR30M, SL-RR30N

**Magnetically actuated interlock switches** Model(s) MA-S, followed by 2, 20 or 21, followed by A or D

MA-S2D, MC-S, MC-S1, MC-S2, MC-S6

**Relays** Model(s) SR203AM01, SR203AM02, SR203M01, SR203M02, SR204P00, SR204P02, SR208AD01, SR208AD02, SR209AD01, SR209AD02

**Rope operated emergency switches** Model(s) ER-4020, ER-6019

**Safety relays** Model(s) SMS-##, SMT-##, SR-###AM, SR-###DD, SR-###E, SR-###MP, SR-##A, SR-125SMS4501, SR-125SMS4502, SR-125SMS4503

**Safety switches** Model(s) T-3008-02, T-3008-03, T-3008-11, T-3008-12

**Solenoid locking switches** Model(s) TL-5012, TL-8012-S, TL-8018-4, TL-8018-5

**Stand-alone switches** Model(s) MF-2PCxx (xx=1 thru 99), MFS-11P11+, MFS-11P20+, MFS-12P11+, MFS-12P20+

**Switches** Model(s) BL-6009, HP-2007, HP-2010, HP-3009, HP-6009, T-2007, T-2010, T-3009, T-4011

**Switches and actuators** Model(s) CM-S11P+

CM-S11PC, CM-S11PCC, CM-S31SC, CM-S31SCC or MA-11, followed by AP or DP, followed by 10, 11, 20 or 21

CM-S1P+, CM-S221P, CM-S221P+, CM-S2P+, CM-S31, CM-S321S+, CM-S3P+, CM-S421S+, CM-S521P+, CM-S5P+, CM-S621P+, CM-S6P+, MA-10AP+, MA-10DP+, MA-11AP+, MA-11DP+, MA-12AP+, MA-12AP10, MA-12AP11, MA-12DP+, MA-12DP10, MA-12DP11, MA-13AP+, MA-13AP10, MA-13AP11, MA-13AP20, MA-13AP21, MA-13DP+, MA-13DP10, MA-13DP11, MA-13DP20, MA-13DP21, MA-14AP+, MA-14DP+, MA-14DP10, MA-14DP11, MA-14DS10, MA-14DS11, MA-15AP+, MA-15DP+, MA-15DP21, MA-15DS21, MA-16AP+, MA-16APAS, MA-16APDS, MA-16DP+, MA-16DPAS, MA-16DPDS, MA-1AP+, MA-1DP+, MA-20AP+, MA-20DP+, MA-21AP+, MA-21DP+, MA-2AP+, MA-2DP+, MA-34AS+, MA-34DP10, MA-34DP11, MA-34DS+, MA-34DS10, MA-34DS11, MA-35AS+, MA-35DP21, MA-35DS+, MA-35DS21, MA-36AS+, MA-36DS+, MA-S0DS+, MA-S20AS+, MA-S21AS+, MA-S21DS+, MA-S2AS+, MA-S2DS+, MAA-36APAS, MAA-36APDS, MAA-36DPAS, MAA-36DPDS

# - Where # represents number.

+ - Followed by CC or Cxx, or followed by C and Cxx where xx is numbers 1 thru 99.

Last Updated on 2013-08-28

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### Auxiliary Devices Certified for Canada

[See General Information for Auxiliary Devices Certified for Canada](#)

**OMRON SCIENTIFIC TECHNOLOGIES INC**  
6550 DUMBARTON CIR  
FREMONT, CA 94555 USA

E195653

#### Investigated to CAN/CSA-C22.2 No. 14

**Actuator switches** Model(s) MFS-11P11, MFS-11P11CC, MFS-11P20, MFS-11P20CC

**Actuators** Model(s) CM-S11ACT, CM-S1ACT, CM-S221ACT, CM-S2ACT, CM-S31ACT, CM-S321ACT, CM-S3ACT, CM-S421ACT, CM-S521ACT, CM-S5ACT, CM-S621ACT, CM-S6ACT, MA-10ACT, MA-11ACT, MA-12ACT, MA-13ACT, MA-14ACT, MA-15ACT, MA-16ACT, MA-1ACT, MA-20ACT, MA-21ACT, MA-2ACT, MA-3ACT, MA-4ACT, MA-5ACT, MA-6ACT, MA-7ACT, MA-9ACT, MA-S20ACT, MA-S21ACT, MA-S2ACT, MA-S34ACT, MA-S35ACT, MA-S36ACT

**Control units** Model(s) CM-S21-24V, CM-S41-100V, CM-S41-24V

**Extender modules** Model(s) CM-SE-24V

**Grip-type enabling switches** Model(s) ESD-5020-20, ESD-5020-21

**I-Rope switches** Model(s) ER-1022, ER-1032, ER-5018, ER-6022, ER-6022-SS

**Industrial control switches** Model(s) SCC-1224, SCC-2124, SCC-2224

**Interlock relays** Model(s) MC-K, MF, SMT-01, SMT-02, SMT-03, SR-0, SR-05, SR-06, SR-07, SR-09, SR-11, SR-12, SR-14, SR-15, SR-16, SR-8

**Interlock switches** Model(s) T-5007, T-5009, T-5009-6

**Limit switches** Model(s) SL-AL11CC, SL-AL11M, SL-AL11N, SL-AL21CC, SL-AL21M, SL-AL21MCC, SL-AL21MM, SL-AL21MN, SL-AL21N, SL-AL30CC, SL-AL30M, SL-AL30N, SL-MAL11CC, SL-MAL11M, SL-MAL11N, SL-MAL21CC, SL-MAL21M, SL-MAL21MCC, SL-MAL21MM, SL-MAL21MN, SL-MAL21N, SL-MAL30CC, SL-MAL30M, SL-MAL30N, SL-MP11CC, SL-MP11M, SL-MP11N, SL-MP21CC, SL-MP21M, SL-MP21MCC, SL-MP21MM, SL-MP21MN, SL-MP21N, SL-MP30CC, SL-MP30M, SL-MP30N, SL-MRL11CC, SL-MRL11M, SL-MRL11N, SL-MRL21CC, SL-MRL21M, SL-MRL21MCC, SL-MRL21MM, SL-MRL21MN, SL-MRL21N, SL-MRL30CC, SL-MRL30M, SL-MRL30N, SL-MRLS11CC, SL-MRLS11M, SL-MRLS11N, SL-MRLS21CC, SL-MRLS21M, SL-MRLS21MCC, SL-MRLS21MM, SL-MRLS21MN, SL-MRLS21N, SL-MRLS30CC, SL-MRLS30M, SL-MRLS30N, SL-MRP11CC, SL-MRP11M, SL-MRP11N, SL-MRP21CC, SL-MRP21M, SL-MRP21MCC, SL-MRP21MM, SL-MRP21MN, SL-MRP21N, SL-MRP30CC, SL-MRP30M, SL-MRP30N, SL-MSR11CC, SL-MSR11M, SL-MSR11N, SL-MSR21CC, SL-MSR21M, SL-MSR21MCC, SL-MSR21MM, SL-MSR21MN, SL-MSR21N, SL-MSR30CC, SL-MSR30M, SL-MSR30N, SL-MTA11CC, SL-MTA11M, SL-MTA11N, SL-MTA21CC, SL-MTA21M, SL-MTA21MCC, SL-MTA21MM, SL-MTA21MN, SL-MTA21N, SL-MTA30CC, SL-MTA30M, SL-MTA30N, SL-P11CC, SL-P11M, SL-P11N, SL-P21CC, SL-P21M, SL-P21MCC, SL-P21MM, SL-P21MN, SL-P21N, SL-P30CC, SL-P30M, SL-P30N, SL-RLH11CC, SL-RLH11M, SL-RLH11N, SL-RLH21CC, SL-RLH21M, SL-RLH21MCC, SL-RLH21MM, SL-RLH21MN, SL-RLH21N, SL-RLH30CC, SL-RLH30M, SL-RLH30N, SL-RLO11CC, SL-RLO11M, SL-RLO11N, SL-RLO21CC, SL-RLO21M, SL-RLO21MCC, SL-RLO21MM, SL-RLO21MN, SL-RLO21N, SL-RLO30CC, SL-RLO30M, SL-RLO30N, SL-RLS11CC, SL-RLS11M, SL-RLS11N, SL-RLS21CC, SL-RLS21M, SL-RLS21MCC, SL-RLS21MM, SL-RLS21MN, SL-RLS21N, SL-RLS30CC, SL-RLS30M, SL-RLS30N, SL-RP11CC, SL-RP11M, SL-RP21MCC, SL-RP21MM, SL-RP21MN, SL-RP30CC, SL-RP30M, SL-RP30N, SL-RR11CC, SL-RR11M, SL-RR11N, SL-RR21CC, SL-RR21M, SL-RR21MCC, SL-RR21MM, SL-RR21MN, SL-RR21N, SL-RR30CC, SL-RR30M, SL-RR30N

**Magnetically actuated interlock switches** Model(s) MA-S, followed by 2, 20 or 21, followed by A or D

MA-S2D, MC-S, MC-S1, MC-S2, MC-S6

**Relays** Model(s) SR203AM01, SR203AM02, SR203M01, SR203M02, SR204P00, SR204P02, SR208AD01, SR208AD02, SR209AD01, SR209AD02

**Rope operated emergency switches** Model(s) ER-4020, ER-6019

**Safety switches** Model(s) T-3008-02, T-3008-03, T-3008-11, T-3008-12

**Solenoid locking switches** Model(s) TL-5012, TL-8012-S, TL-8018-4, TL-8018-5

**Stand-alone switches** Model(s) MF-2PCxx (xx=1 thru 99), MFS-11P11+, MFS-11P20+, MFS-12P11+, MFS-12P20+

**Switches** Model(s) BL-6009, HP-2007, HP-2010, HP-3009, HP-6009, T-2007, T-2010, T-3009, T-4011

**Switches and actuators** Model(s) CM-S11P+

CM-S11PC, CM-S11PCC, CM-S31SC, CM-S31SCC or MA-11, followed by AP or DP, followed by 10, 11, 20 or 21

CM-S1P+, CM-S221P, CM-S221P+, CM-S2P+, CM-S31, CM-S321S+, CM-S3P+, CM-S421S+, CM-S521P+, CM-S5P+, CM-S621P+, CM-S6P+, MA-10AP+, MA-10DP+, MA-11AP+, MA-11DP+, MA-12AP+, MA-12AP10, MA-12AP11, MA-12DP+, MA-12DP10, MA-12DP11, MA-13AP+, MA-13AP10, MA-13AP11, MA-13AP20, MA-13AP21, MA-13DP+, MA-13DP10, MA-13DP11, MA-13DP20, MA-13DP21, MA-14AP+, MA-14DP+, MA-14DP10, MA-14DP11, MA-14DS10, MA-14DS11, MA-15AP+, MA-15DP+, MA-15DP21, MA-15DS21, MA-16AP+, MA-16APAS, MA-16APDS, MA-16DP+, MA-16DPAS, MA-16DPDS, MA-1AP+, MA-1DP+, MA-20AP+, MA-20DP+, MA-21AP+, MA-21DP+, MA-2AP+, MA-2DP+, MA-34AS+, MA-34DP10, MA-34DP11, MA-34DS+, MA-34DS10, MA-34DS11, MA-35AS+, MA-35DP21, MA-35DS+, MA-35DS21, MA-36AS+, MA-36DS+, MA-S0DS+, MA-S20AS+, MA-S21AS+, MA-S21DS+, MA-S2AS+, MA-S2DS+, MAA-36APAS, MAA-36APDS, MAA-36DPAS, MAA-36DPDS

+ - Followed by CC or Cxx, or followed by C and Cxx where xx is numbers 1 thru 99.

Last Updated on 2013-08-28

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11. **Shipping; Delivery.** Unless otherwise expressly agreed in writing by Omron:
  - a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship except in "break down" situations.
  - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
  - c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
  - d. Delivery and shipping dates are estimates only; and
  - e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
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