

STANDARD INFORMATION

Standard: ULC ORD C634

Standard ID: Connectors and Switches for Use with Burglar Alarm Systems [ULC/ORD C634:2016 Ed.2]

Previous Standard ID: Connectors and Switches for Use with Burglar Alarm Systems [ULC/ORD C634:1986 Ed.1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **January 1, 2026**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Several new tests have been added
- Additional requirements for separation of circuits
- Additional requirements for power limited control units
- New requirements for high security switches

Specific details of new/revised requirements are found in table below

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
11		SEPARATION OF CIRCUITS <i>New clause added;</i> When Class 2 and power-limited fire alarm circuit conductors occupy the same enclosure as electric light, power, Class 1, or nonpower-limited fire alarm circuit conductors, both of the following conditions shall be met: a) The enclosure shall provide a minimum of two conductor entry openings so that the Class 2 and power-limited fire alarm circuit conductors may be segregated from electric light, power, Class 1 and nonpower-limited fire alarm circuit conductors. The installation document shall completely detail the entry routing of all conductors into the enclosure; and b) The enclosure shall be constructed so that, with all field-installed wiring connected to the product, a minimum of 6.4 mm spacing is provided between all Class 2 and power-limited fire alarm circuit conductors and all electric light, power, Class 1 and nonpower-limited fire alarm circuit conductors. Compliance with this requirement may be achieved by specific wire routing configurations that are detailed in the installation document. If a wire routing scheme will not maintain a separation of 6.4 mm, barriers shall be used to provide separation. Exception: This requirement need not apply when all circuit conductors operate at 150 V or less to ground, and: a) The Class 2 and power-limited fire alarm circuits are installed using CL3, CL3R, or CL3P, or substitute cable permitted by CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, and the Class 2 and power-limited fire alarm circuit conductors extending beyond the cable jacket are separated a minimum of 6.3 mm (1/4 inch) or by nonconductive tubing or by a nonconductive barrier from all other conductors; or b) The Class 2 and power-limited fire alarm circuit conductors are installed as a Class 1, or higher, circuit.
11.3		
20	Info	OPERATION TEST <i>New clause added;</i> WIRELESS DEVICES Wireless devices shall be tested as a system with the applicable requirements of Section 13 of CAN/ULC-S304, Standard for Control Units, Accessories and Receiving Equipment for Intrusion Alarm Systems.
20.9		



CLAUSE	VERDICT	COMMENT
	Info	PART VII — PERFORMANCE - POWER LIMITED <i>New section added;</i> GENERAL
41		A control unit shall be classified as a power-limited or nonpower-limited circuit. A circuit shall be considered nonpower-limited unless otherwise identified in the installation documentation and marking on the product. See standard for details.
	Info	PART X — HIGH SECURITY SWITCHES - LEVELS 1 AND 2 <i>New section added;</i> GENERAL
49		Levels 1 and 2 High Security Switches include a number of features to resist mechanical, electrical and magnetic tampering. See standard for details.
	Info	PART XI — HIGH SECURITY SWITCHES – PERFORMANCE
52	Info	GENERAL <i>New clause added;</i>
52.2		All door mounted tests shall be conducted using a 6.4 mm thick mild steel plate as intended in service. All manufacturers' recommendations for installation of the BMS on metal doors and metal door frames shall be followed, for the purpose of these tests.
		<i>New section added;</i>
53		COMPROMISE TEST – MECHANICAL AND MERCURY SWITCHES
53.1		A high security mechanical or mercury switch shall operate as intended following attempts to hold the switch mechanism in its supervisory position by means of wire, thin strips of plastic or metal, or by other means as determined by evaluation of the switch construction.



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
		TEST FOR ELECTRICAL PROTECTION AGAINST TAMPERING
56		<p>The electrical supervision circuit of a high security switch shall transmit an alarm signal to an external alarm circuit if the switch mounting or enclosure is moved out of position as described in Clause 56.2. The alarm signal shall be transmitted either:</p> <p>See standard for details.</p>
		<i>New section added;</i>
		PART XII — HIGH SECURITY SWITCHES – MARKING
57		GENERAL <p>A switch complying with the requirements in Sections 50 to 56 shall be designated:</p> <p>See standard for details.</p>
		<i>New section added;</i>
		TESTING – HIGH SECURITY LEVEL 2 SWITCHES
		DETECTION TEST
58		<p>A Level 2 High Security Switch (BMS), intended for installation at a point of entry that has a tolerance of movement between the operating mechanism (entry/exit door to buildings, windows, emergency egress, etc.) and the frame that it's hinged upon, shall initiate an alarm when the inner leading edge of the door is moved between 6.4 mm and 25 mm from the doors secured seated position.</p> <p>See standard for details.</p>
		<i>New section added;</i>
		COVER OR ENCLOSURE TAMPER TEST (WHEN APPLICABLE)
59		<p>A Level 2 High Security Switch (BMS), if equipped with a removable cover or enclosure, shall initiate a tamper alarm before internal wiring or components can be accessed when the cover or enclosure is moved.</p> <p>See standard for details.</p>



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
		MAGNET ASSEMBLY COVER REMOVAL ALARM TEST (WHEN APPLICABLE)
60		<p>A Level 2 High Security Switch (BMS), if equipped with a removable cover on the door mounted magnet assembly, shall initiate an alarm if the magnet assembly cover is removed when the BMS is in the closed door position (secure condition). The alarm must operate before the cover has been moved 1.6 mm.</p> <p>See standard for details.</p>
		<i>New section added;</i>
		SWITCH ASSEMBLY REMOVAL TAMPER TEST (WHEN APPLICABLE)
61		<p>A sealed Level 2 High Security Switch (BMS), without a removable cover or enclosure, shall initiate a tamper alarm when the switch unit is removed from the door frame or mounting surface.</p> <p>See standard for details.</p>
		<i>New section added;</i>
		FOREIGN MAGNETIC FIELD TAMPER ALARM TEST
62		<p>A Level 2 High Security Switch (BMS) shall either function as intended or initiate an alarm or tamper alarm upon attempted substitution of an external magnetic field when the switch is in the normally secure position (closed door).</p> <p>See details for details.</p>
		<i>New section added;</i>
		FOREIGN MAGNETIC FIELD COMPROMISE TESTS (LEVEL 2)
63		<p>In addition to conducting the compromise test using the test parameters outlined in Clause 54.2, the compromise test shall be conducted within the gap between the switch assembly and the installed magnets.</p> <p>See standard for details.</p>
		<i>New section added;</i>
		EXTENDED ENDURANCE TEST
64		<p>A Level 2 High Security Switch (BMS) shall accurately report alarm and secure status for 1,000,000 open/close cycles and be operable after the 1,000,000 open/close cycles.</p> <p>See standard for details.</p>