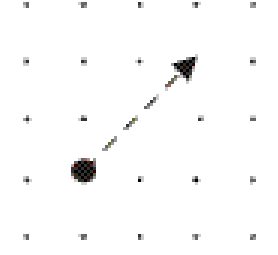


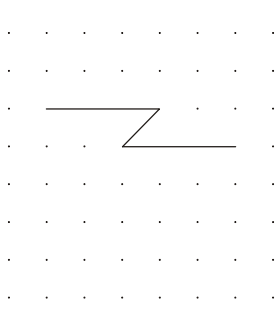
Description of Installation switches, wireless connection

This document adds further information to IEC 60617 Change requests C00199 and continues discussion of already standardized installation switch symbols.

Graphical symbols for wireless connection

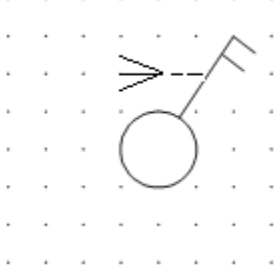
		<p>This is the original proposal for C00199.</p> <p>Proposal based on symbol S00450 which is modified by using dashed line.</p> <p>Problem is that dashed line has already special meaning → mechanical connection</p>
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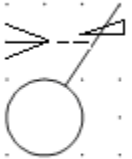
New proposal added at the evaluation

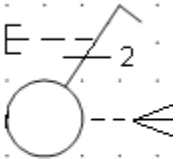
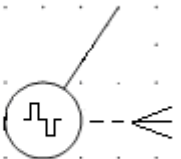
		<p>This is the A-version of C00199.</p> <p>Proposal is based on JNC counter proposal. Good thing in this proposal is horizontal "flash" is already used for wireless connection in information and communication technology.</p> <p>Problem is that vertical "flash" is used in electrical power technology to present "fault" on dangerous voltage.</p>
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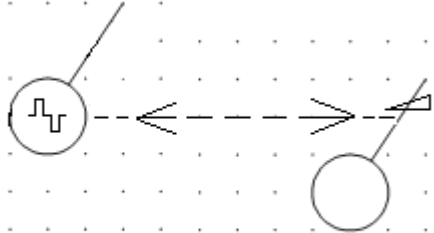
Additional proposal for wireless connection based on existing symbol in IEC 60617

Examples of application

		<p>Two-pole switch, 0-1, actuated by radio signals, with two stable electrical positions, resumed also after voltage loss.</p> <p>The number of poles etc should be indicated on the receiver</p> <p>The antenna symbol is probably best treated as other indications of operation</p>
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		<p>Single-pole switch with dimmer, actuated by radio signals, stable electrical positions continuously between 0 and 1. Resumed after voltage loss.</p>
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		<p>Manual operating device for switch actuated by radio signals.</p> <p>The device may send two kinds of pulses: short for on or off or longer pulses for increase-decrease for dimmers.</p> <p>Normally two devices are integrated into one operation device; one for sending off (or decrease) signal and one sending on (or increase) signal.</p> <p>In this case the convention about electrical stable positions is not valid and that is indicated by the use of the pushbutton symbol which has automatic return, which is rather correct but needs to be simplified.</p> <p>One alternative would be to write a 2 together with a pulse symbol on the line to the antenna (and take away the pushbutton and the /2)</p> <p>Another possibility illustrated to the left would be to see it as a “pulse generator” and just put a (simple one or a +/- going) pulse symbol inside the circle without any further indications.</p>
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	<p>Dimmer operated by radio signals</p> <p>The relation between sender and receiver can, instead of the dash line, also be indicated by the codes or other kind of relation indication.</p> <p>Note that it is possible with many to many relations between sender and receiver. A sender can operate many receivers at the same time as a receiver can be operated by many senders.</p>
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