

# MAKESAFE TOOLS

## Control Wiring Diagrams

	Standard	Alternate	Automation
Description	<p>MAKESafe products are shipped in this configuration. It consists of a momentary start button and a latching emergency stop button.</p>	<p>Flexibility to integrate additional braking activation means.</p>	<p>Flexibility to completely replace standard controls.</p> <p>Contact Closed = On Contact Open = Off Contact Transition, Closed → Open = Brake</p>
Applications	<ul style="list-style-type: none"> <li>Normal tool use.</li> </ul>	<ul style="list-style-type: none"> <li>Adding additional stop or e-stop button(s)</li> <li>Integrating other guard interlocks</li> <li>Key or keycard access control</li> <li>Custom control schemes</li> <li>Fully automated processes</li> </ul>	<ul style="list-style-type: none"> <li>Fully automated processes</li> <li>Integration into custom controls</li> <li>Test fixtures</li> </ul>
Wiring Diagram	<p>Start Button (NO) momentary E-Stop Button (NC) latches open BLACK BLUE WHITE GREEN BROWN</p>	<p>Start Button (NO) momentary E-Stop Button (NC) latches open Any Contact (NC)* BLACK BLUE WHITE GREEN BROWN</p> <p><small>*Any number of normally-closed switches, buttons, contacts, or interlocks can be connected in series. The momentary opening of any one of the series contacts will activate braking.</small></p>	<p>Any Contact (NO) BLACK WHITE BLUE GREEN BROWN</p>
<p><b>Minimum contact rating:</b> 100mA at 10VDC, “NO”: Normally Open, “NC”: Normally Closed  <b>Compatible Connector Cables:</b> TE 2273034-1, 2273028-1 (A-Coded M12 Connectors)</p>			<p><b>Notice:</b> Custom controls may bypass integral anti-restart feature. If the NO contact is closed when power is returned, your device will restart!</p>