

SAFE-T-PULL®



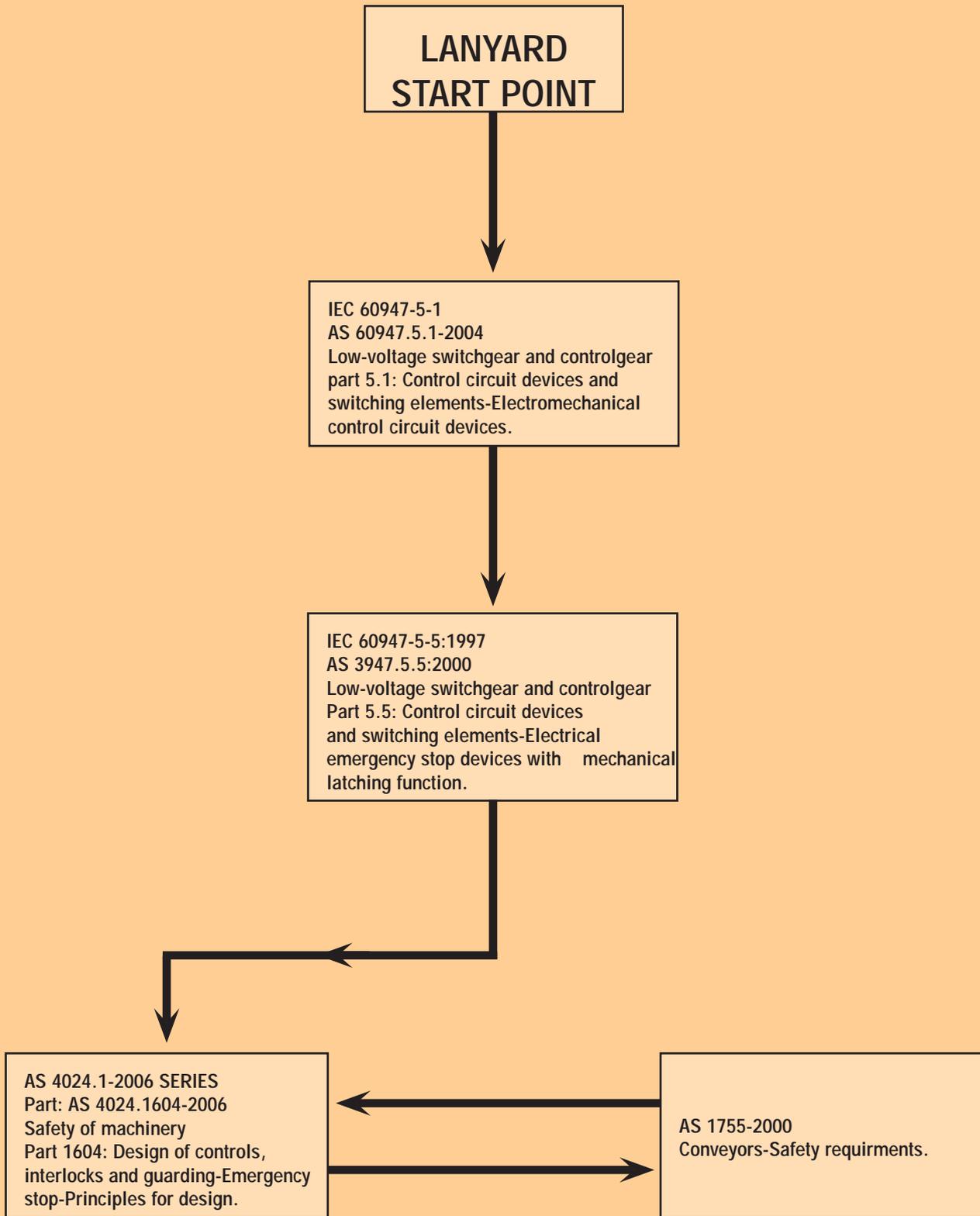
Lanyard Switches Compliance to IEC/Australian Standards

The starting point for any electrical equipment is IEC 60947-5-1:2003/AS 60947.5.1-2004 Low-voltage switchgear and control gear, Part 5.1: Control circuit devices and switching elements- Electromechanical control circuit devices (refer to figure 1), this standard points out all electrical requirements for control circuit devices i.e. limit switches, push buttons, manual control switches etc. Our limit/micro switches used in our emergency stop devices (lanyards) have been tested and passed this standard. Also in the series of IEC 60947-5-1:2003/AS 60947.5.1-2004 standards is AS 3947.5.5:2000 Control circuit device and switching element- Electrical emergency stop device with mechanical latching function, i.e. lanyards. This standard is the standard that covers a lanyard switch design so that the switch itself must comply to this not the installation. The standard states that the electrical requirements of such a device shall have a utilization category of AC-15 and/or DC-13 and/or DC-14 also all normally closed contacts are of a direct opening action (eg. not dependent on springs), which comply with the parent standard IEC 60947-5-1:2003/AS 60947.5.1-2004. Under the Mechanical Requirements heading is the Latching heading. It states, when the emergency stop signal has been generated during actuation of the emergency stop device, the emergency stop function shall be maintained by latching of the actuating system. The emergency stop signal shall be maintained until the emergency stop device is reset. It shall not be possible for the emergency stop device to latch-in without generating the emergency stop signal. In case of failure in the emergency stop device (including the latching means), the generation of the emergency stop signal shall have priority over the latching function. Our lanyard switches have a dual (fail safe) tripping mechanism so that if the lid is removed or damaged, the lanyard may still be tripped with out the latching function. AS 4021-2006 Safety of Machinery is the next standard in line (refer to figure 1) which covers principles of safe guarding of machinery. In this series of Standards is the Standard AS 4024.1604 Safety of machinery, Part 1604: Design of controls, interlocks and guarding- Emergency stop- Principles for design. This Standard covers all principles for lanyard switches in the function of an emergency stop, requirements, operation and actuators i.e. Pull Wires. This Standard also states under the electrical requirements that a lanyard must have direct opening action contacts (eg not dependent on springs) as stated above in AS 3947.5.5:2000. The last Standard is AS1755-2000 Conveyors- Safety requirements (refer to figure 1), this Standard covers the installation of lanyards i.e. position, pull wire requirements, signage, etc.

Once our lanyard switches are set up to our installation instructions and maintained to our requirements they will comply and go beyond all the relevant Standards listed above. Remember that a lanyard switch is a life saving device so choose the brand of switch very carefully and make sure it complies with all the Standards listed above. As all we do is look after conveyor safety we make sure we are always in front of the Standards when it comes to safety and reliability.

PULL WIRE SWITCH

(Figure 1)



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