Safety Lockout System

- An alternative to LOTO
Safety Lockout System - SLS

Application

The Safety Lockout System (SLS) from Pilz allows remote operation of the power isolating switching device from Remote Lockout Stations (RLS) mounted by each access point to safely isolate the main electrical, hydraulic and pneumatic circuits of a machine or plant. Unlike other Remote Lockout Systems which are used for unexpected startup only, the Pilz Safety Lockout System is the first to be ANSI/UL 6420 Listed as an Energy Isolation Device for electrical power.

Shutdown can be initiated from any given location of the machine or plant and in most cases only requires applying one personal lock. The safe condition is tested and displayed by a “System Isolated” light. This system provides automatic zero energy verification in order to protect personnel and comply with industry standards for Energy Isolation and prevention of unexpected start up.

Advantages

- Operates remotely, keeping the operator safe from arc flash hazards
- Energy isolated light indicates safe status, no need for proper PPE to measure voltage for verification
- Rated in millions of LOTO cycles instead of thousands, extending the life of the system compared to alternatives
- Simplified LOTO procedure for complicated machinery and processes, saving time and money
- Single point lockout of multiple energy sources for immediate safety
- Small 24VDC Remote Lockout Stations easily mount next to multiple access points to promote following proper procedures and negate requirement for 36” to 42” clearance in front of the switch
- Uses cost-effective cables for local disconnects

Features

- Two control systems
  - The first system is based on the PNOZmulti controller for single zone isolation. This system can be installed, commissioned, and maintained by the customer.
  - The second system is available with the Pilz PSSuniversal safety control system for multiple zone control of energy isolation and also for imbedding into a machine that currently utilizes a Pilz processor. This version requires Pilz integration services assistance.
- Third-party Lab tested and UL certified to ANSI/UL 6420 as a “system” including Common Cause Failures of a dual channel safety contactor system such as mechanical and electrical ruggedness, Type 2 SCCR, EMC, Temp Rise and safety functionality
- Tested and rated as a unit AC23A — a Disconnect for electrical energy isolation
- CAT4/PL e design per ISO 13849 and tamper proof sealed
- As many as 64 remote lockout switches may be used to request isolation
- The RLS box has an “Energy Isolated” verification light indicating a safe status
- Optional modules for pneumatic and hydraulic power isolation
- Hardwired interface to any machine Safety Related Control System for E-stop, zero speed and valve independent control
- Optional diagnostic display or Ethernet interface
Part number matrix

<table>
<thead>
<tr>
<th>Product area</th>
<th>Amperage</th>
<th>Voltage</th>
<th>No. and type of interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Lockout System</td>
<td>060—60 amps</td>
<td>4—480Vac</td>
<td>1R—Ross valve</td>
</tr>
<tr>
<td></td>
<td>100—100 amps</td>
<td></td>
<td>2R—Ross valve</td>
</tr>
<tr>
<td></td>
<td>200—200 amps</td>
<td></td>
<td>1F—Festo valve</td>
</tr>
<tr>
<td></td>
<td>400—400 amps</td>
<td></td>
<td>1H—Hydraulic valve</td>
</tr>
<tr>
<td></td>
<td>600—600 amps</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Detail</th>
<th>No. of Remote Lockout Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>M—Multi control system</td>
<td>4—4 RLS</td>
</tr>
<tr>
<td>W—Wall mount enclosure</td>
<td>8—8 RLS</td>
</tr>
<tr>
<td>F—Floor mount enclosure</td>
<td>(for more RLS Stations, use a Marshal Box expander)</td>
</tr>
<tr>
<td>TT—Top line Top load connection</td>
<td></td>
</tr>
<tr>
<td>TB—Top line Bottom load connection</td>
<td></td>
</tr>
</tbody>
</table>

System layout

[Diagram of system layout]
Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.

Support

Technical support is available from Pilz round the clock.

Americas
Brazil
+55 11 97569-2804
Canada
+1 888-315-PILZ (315-7459)
Mexico
+52 55 5572 1300
USA (toll-free)
+1 877-PILZUSA (745-9872)

Asia
China
+86 21 60880878-216
Japan
+81 45 471-2281
South Korea
+82 31 450 0680

Australia
+61 3 9544 6300
Europe
Austria
+43 1 7986263-0
Belgium, Luxembourg
+32 9 3217575
France
+33 3 88104000
Germany
+49 711 3409-444
Ireland
+353 21 4804983
Italy
+39 0362 182671

Scandinavia
+45 7443 6332
Spain
+34 9384 97433
Switzerland
+41 62 889 79-30
The Netherlands
+31 347 320477
Turkey
+90 216 577 5552
United Kingdom
+44 1536 462 203

You can reach our international hotline on:
+49 711 3409-444
support@pilz.com