Preventa safety modules

XPSAK

For Emergency stop, switch, sensing mat/edges or safety light curtain monitoring

Catalogue

june 2014
Operating principle

Safety modules XPSAK meet the requirements of Performance Level PL e/Category 4 conforming to standard EN/ISO 13849-1.

They are used for:

- Monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1.
- Electrical monitoring of switches activated by protection devices, with optional selection of synchronisation time between signals.
- Monitoring 4-wire sensing mats or edges.
- Monitoring type 4 light curtains conforming to EN/IEC 61496-1 which have solid-state safety outputs with test function (light curtains XUSL).
- Housed in a compact enclosure, the modules have 3 safety outputs, a relay signalling output and 4 solid-state signalling outputs for signalling to the process PLC.
- Preventa safety modules XPSAK incorporate removable terminal blocks, thus optimising machine maintenance.
- To aid diagnostics, the modules have 4 LEDs on the front face which provide information on the monitoring circuit status.
- The Start button monitoring function is configurable depending on the wiring.

Maximum achievable safety level

- PLe/Category 4 conforming to EN/ISO 13849-1.
- SIL CL3 conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

- UL
- CSA
- TÜV

References

<table>
<thead>
<tr>
<th>Description</th>
<th>Connection</th>
<th>Number of safety circuits</th>
<th>Additional outputs / Solid-state outputs for PLC</th>
<th>Supply</th>
<th>Reference</th>
<th>Weight (kg/lb)</th>
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<td>1 / 4</td>
<td>~ and 24 V</td>
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<td>0.300/0.661</td>
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<td>Terminal block integrated in module</td>
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Preventa safety modules
Type XPSAK
For Emergency stop, switch, sensing mat/edges or safety light curtain monitoring

Operating principle, references

Preventa safety modules
Type XPSAK
For Emergency stop, switch, sensing mat/edges or safety light curtain monitoring

Operating principle
Safety modules XPSAK meet the requirements of Performance Level Pb Category 4 conforming to standard EN/ISO 13849-1.
They are used for:
- Monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1.
- Functional monitoring of machinery activated by protective devices, with optional selection of synchronisation time between signals.
- Monitoring where sensing mats or edges.
- Monitoring type 4 light curtains conforming to EN/IEC 61800-5-1 which have sealable safety outputs with test functions (light curtains XUSL).
- Monitoring of a compact isocentric, the modules have 3 safety outputs, a relay signalling output and 4 solid-state signalling outputs for relaying to the process PLC.
- Monitoring safety modules XPSAK which incorporate removable terminal blocks, thus optimising machine maintenance.

Technical diagnostics, the modules have 4 LEDs on the front face which provide information on the monitoring circuit status.

Maximum achievable safety level
- Pb Category 4 conforming to EN/ISO 13849-1.
- SIL CL3 conforming to EN/IEC 61508 and EN/IEC 62061
- PLe/Category 4 conforming to EN/ISO 13849-1.

Housed in a compact enclosure, the modules have 3 safety outputs, a relay signalling output and 4 solid-state signalling outputs for PLC.

To aid diagnostics, the modules have 4 LEDs on the front face which provide information on the monitoring circuit status.

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Click on “Documents & Download”

Click on “Instruction sheet”
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