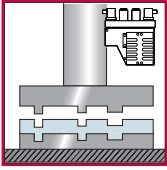


# Preventa safety modules

## Type XPSPVK

For dynamic monitoring of double-bodied solenoid valves



### Operating principle

Safety module **XPSPVK** is specially designed for dynamic monitoring of the safety valves in eccentric presses, conforming to European standard EN 692.

This standard establishes the specifications related to safety control systems for presses equipped with friction clutches.

To meet the requirements of this standard, the clutch/brake control must be monitored dynamically.

This function is provided by a double-bodied solenoid valve (safety valve for presses) which performs the functions of two valves mounted in one body.

The position of the two valve pistons can be monitored by proximity sensors, mechanical limit switches or pressure switches.

Module **XPSPVK** checks for the correct operation of the double-bodied safety valves at 3 points in the cycle.

- Start at top dead centre: checks the rest position of the two valves.
- Take-on point (transfer function): checks that the two valves are in the “activated” (energised) position.
- Press stop trigger point: checks that the two valves return to the rest position. Return must be simultaneous for both valves within a defined time period.

To set up an automatic disconnect of the **XPSPVK** module at the first machine stroke, a NC auxiliary contact mounted on the main control contactor or on another contactor/relay, activated at the same time, can be wired to terminals 7 and 8 in parallel with the RESET button.

If a fault is detected during the cycle, the **XPSPVK** module will stop the slide stroke and will also inhibit the start of another cycle.

### Maximum achievable safety level

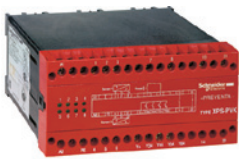
- PL e/Category 4 conforming to EN/ISO 13849-1
- SILCL 3 conforming to EN/IEC 62061

### Product certifications

- UL
- CSA
- TÜV

### References

Description	Display	Supply	Reference	Weight kg/ lb
Safety modules for dynamic monitoring of double-bodied solenoid valves	8 LEDs	24 V $\overline{\text{DC}}$	<b>XPSPVK1184</b>	0.700/ 1.543
		115 V $\sim$	<b>XPSPVK3484</b>	0.900/ 1.984
		230 V $\sim$	<b>XPSPVK3784</b>	0.900/ 1.984



XPSPVK