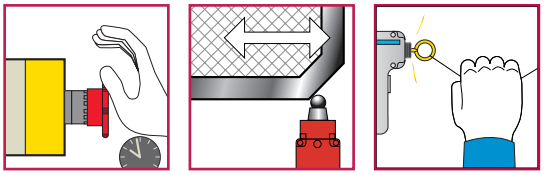
Preventa safety modules

XPSATE

For Emergency stop and switch monitoring

Catalogue

june 2014



Schneider Electric

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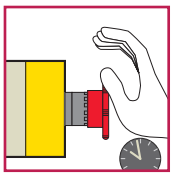

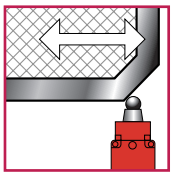

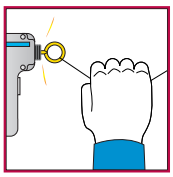

Operating principle

Safety modules **XPSATE** are used for monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1 and also meet the safety requirements for the electrical monitoring of switches in protection devices conforming to standard EN/ISO 14119.
They provide protective for both the machine operator and the machine by immediately stopping the dangerous movement on receipt of a stop instruction from the operator, or on detection of a fault in the safety circuit itself.
In addition to the stop category 0 instantaneous opening safety outputs (2 for **XPSATE**), the modules incorporate stop category 1 time delay outputs (3 for **XPSATE**) which allow for controlled deceleration of the motor components until a complete stop is achieved (for example, motor braking by variable speed drive).
At the end of the preset delay, the supply is disconnected by opening the time delay output circuits.

- The time delay of the 3 output circuits is adjustable between 0 and 30 seconds using a 12-position selector switch.
- Module **XPSATE** incorporates 4 solid-state signalling outputs for signalling to the process PLC.
- To aid diagnostics, the modules have LEDs which provide information on the monitoring circuit status.
- The Start button monitoring function is configurable depending on the wiring.

Maximum achievable safety level

- PL e/Category 4 (instantaneous safety outputs) and PL d/Category 3 (time delay safety outputs) conforming to EN/ISO 13849-1
- SILCL3 (instantaneous safety outputs) and SILCL2 (time delay safety outputs) conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

- UL
- CSA
- TÜV

References

Description	Connection	Number of safety circuits	Additional outputs	Setting range of time delay	Supply	Reference	Weight kg/ *lb*
Safety modules for Emergency stop and switch monitoring	Captive screw clamp terminals Terminal block integrated in module	5 NO (3 NO time delay)	4 solid-state	0…30 s	∿ and ⎓ 24 V	**XPSATE5110**	0.280/ *0.617*
	Captive screw clamp terminals Terminal block removable from module	5 NO (3 NO time delay)	4 solid-state	0…30 s	∿ and ⎓ 24 V	**XPSATE5110P**	0.280/ *0.617*
	Captive screw clamp terminals Terminal block integrated in module	5 NO (3 NO time delay)	4 solid-state	0…30 s	∿ 115 V	**XPSATE3410**	0.380/ *0.838*
	Captive screw clamp terminals Terminal block removable from module	5 NO (3 NO time delay)	4 solid-state	0…30 s	∿ 115 V	**XPSATE3410P**	0.380/ *0.838*
	Captive screw clamp terminals Terminal block integrated in module	5 NO (3 NO time delay)	4 solid-state	0…30 s	∿ 230 V	**XPSATE3710**	0.380/ *0.838*
	Captive screw clamp terminals Terminal block removable from module	5 NO (3 NO time delay)	4 solid-state	0…30 s	∿ 230 V	**XPSATE3710P**	0.380/ *0.838*

XPSATE5110

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>> Wiring diagram and Functional Diagram are available on the “e-Shop” via the partnumber.

> Click on a partnumber, the hyperlink opens the “e-Shop”

Embedded hyperlinks in catalogues

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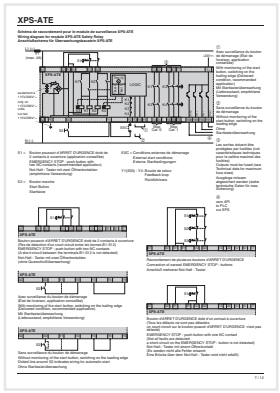
direct access to information on the internet



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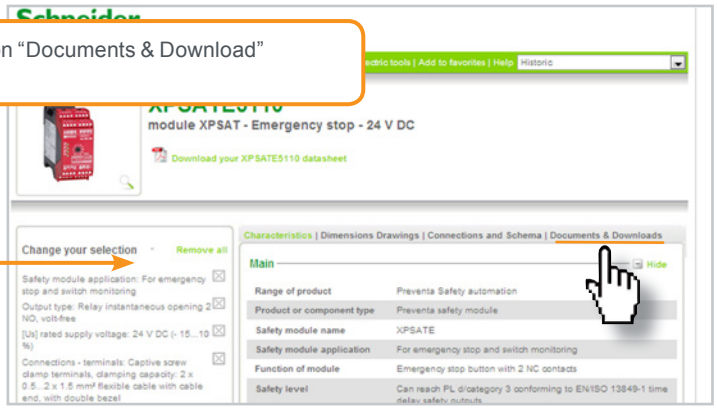
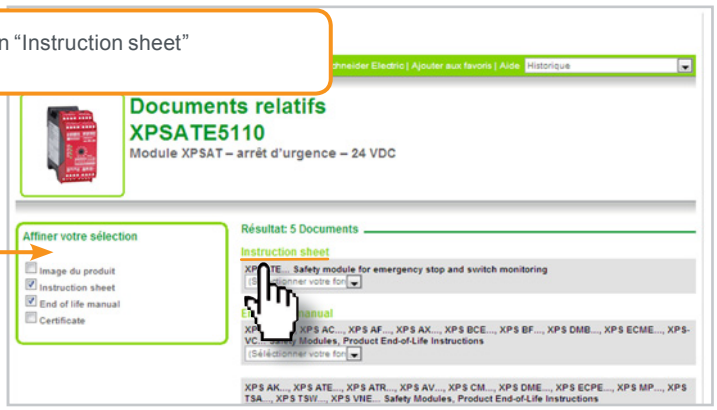


> Click on “Instruction sheet”



More information on
http://www.schneider-electric.com/machinesafety

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