Safety modules

Catalog
July 2019





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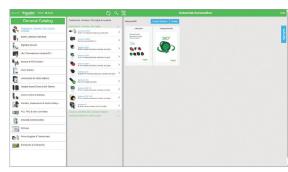
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General content

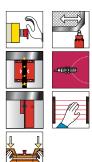
Preventa XPS Universal

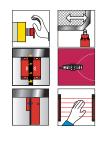
Safety modules

Se	election guide
	Type XPSUAB - Operating principles, selection
	Type XPSUAF - Operating principles
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Safety modules

Safety Functions







Safety modules for monitoring

- Emergency stop Antivalent contacts
- Guard switch
- Magnetic switch
- Proximity safety switch

- PNP sensor RFID safety switch Safety light curtain Two-hand control stations
- Emergency stop Guard switch
- Magnetic switch
- Proximity safety switch
- PNP sensor
- RFID safety switch
- Safety light curtain
- Emergency stop Guard switch
- Magnetic switch

- Proximity safety switch
 PNP & NPN sensor
 RFID safety switch
 Safety light curtain
 Sensing mat/edges







Maximum achievable safety level

- PLc/Category 1 conforming to ISO
 13849-1
 SILCL 1 conforming to IEC 62061
 SILC L 3 conforming to IEC 62061
 SIL 3 conforming to IEC 61508 13849-1 ■ SILCL 1 conforming to IEC 62061 ■ SIL 1 conforming to IEC 61508

Conformity to standards

- IEC 60947-5-1
- IEC 61508-1 (functional safety standard)
- IEC 61508-2 (functional safety standard)
- IEC 61508-3 (functional safety standard)
- ISO 13849-1 (functional safety standard)
 IEC 62061 (functional safety standard)

Product certifications

■ cULus ■ TÜV

Number of outputs	Safety
	Diagnostic
Display	
Supply voltage	
Synchronization time between	veen inputs

	Diagnostic		
Display			
Supply voltage			
Synchronization time between inputs			
Inputs channels	Number		
Module type			
Page			
Accessory type			
Page			

1 single changeover output	3 NO	2 NO + 1 NC	
1 solid state	1 solid state	1 solid state	
6 LEDs	6 LEDs	6 LEDs	
24 V AC/DC and 48-240 V AC/DC			

Selectable	Selectable	Selectable	
2	2	2	

XPSUAB	XPSUAF	XPSUAK
4	6	7
XPSEC, XPSES	XPSEC, XPSES	XPSEC, XPSES
13	13	13

For more technical information, please consult our web site www.se.com

Operating principle, selection

Preventa XPS Universal

Safety modules

Type **XPSUAB**, for monitoring Emergency stop, Antivalent contacts, Guard switch, Magnetic switch, Proximity safety switch, PNP sensor, RFID safety switch, Safety light curtain or Two-hand control stations















Operating principle

XPSUAB safety modules are designed to monitor two hand control stations IIIA which must comply with International standard ISO 13851. The control stations must be designed and installed so that they cannot be activated involuntarily or easily rendered inoperative. Depending on the application, the requirements of type C standards specific to the machinery involved must be met (additional personal protection methods may have to be considered).

To initiate a dangerous movement, both operators (two-hand control pushbuttons) must be activated within an interval of 0.5 s (synchronous activation). If one of the two pushbuttons is released during a dangerous operation, the control sequence is cancelled. Resuming the dangerous operation is possible only if both pushbuttons are returned to their initial position and reactivated within the required time interval. The safety distance between the control units and the hazardous zone must be enough to ensure that when only one operator is released, the hazardous zone cannot be reached before the dangerous movement has been completed or stopped.

- With automatic, manual & monitored start, XPSUAB safety modules are used for monitoring:
- □ A single contact Emergency stop conforming to standard ISO 13850
- □ Switches activated by protection devices conforming to standard ISO 14119:
 - Antivalent contacts pair
 - Mechanical guard switch
 - Magnetic switch with antivalent contacts
 - Proximity safety switch with antivalent contacts
 - PNP sensor
 - RFID safety switch
- ☐ Type 4 light curtains conforming to IEC 61496-1 which have solid-state safety outputs with test function
- With automatic start only, XPSUAB safety modules are used for monitoring two-hand control IIIA.
- These functions are selected and the start function can be configured by selector switches on the front face.
- A solid-state diagnostic output with complete status information facilitates maintenance.
- 6 LEDs on the front face provide information on the monitoring circuit status.

Selection						
Requirements of standard ISO 13851		Type I	Type II	Type III		
				Α	В	С
Standard ISO 13851 defines the selection of two-hand controls according to its behavior. Use of both hands (simultaneous action)						
This table details the 3 types of two-hand control conforming to ISO 13851.	Link between input and output signals					
For each type, it lists the operating characteristics and minimum requirements.	Prevention of accidental operation					
	Tamper-proof					
	Output signal reinitialised					
	Synchronous action (specified time limit)					
	Use of proven components (Category 1 conforming to ISO 13849-1)			XPSUAB		
	Redundancy with partial error detection (Category 3 conforming to ISO 13849-1)				XPSUS	
	Redundancy + Self-monitoring (Category 4 conforming to ISO 13849-1)					XPSUS
	Two-hand control station	XY2SB••	XY2SB••	XY2SB••	XY2SB••	XY2SB●●

Conforming to ISO 13849-1

Conforming to ISO 13851

Main features, references

Preventa XPS Universal

Safety modules

Type **XPSUAB**, for monitoring Emergency stop, Antivalent contacts, Guard switch, Magnetic switch, Proximity safety switch, PNP sensor, RFID safety switch, Safety light curtain or Two-hand control stations

Main features	
Start input	Automatic, manual & monitored start
Safety input	1
Control outputs	2 ON/OFF configurable pulsed outputs
Safety outputs	1 single changeover output
Diagnostic outputs	1 solid state diagnostic output with complete status information
Connection type	Removable terminal blocks
Safe expansion connection	No
Module width	22.5 mm/0.886 in.
Maximum achievable safety level	 PLc/Category 1 conforming to ISO 13849-1 SILCL 1 conforming to IEC 62061 SIL 1 conforming to IEC 61508
Product certifications	■ cULus ■ TÜV
Conformity to standards	■ IEC 60947-5-1 ■ IEC 61508-1 (functional safety standard) ■ IEC 61508-2 (functional safety standard) ■ IEC 61508-3 (functional safety standard) ■ ISO 13849-1 (functional safety standard) ■ IEC 62061 (functional safety standard)

References				
Description	Voltage	Terminals mm/in.	References	Weight kg/ <i>lb</i>
Type XPSUAB for monitoring: - Emergency stop - Antivalent contacts	24 V ∼/ 	Spring 5.08/0.20	XPSUAB11CC	0.200/0.440
 Guard switch Magnetic switch Proximity safety switch PNP sensor RFID safety switch 		Screw 5.08/0.20	XPSUAB11CP	0.200/0.440
Safety light curtain Two-hand control stations	48-240 V ∼/ 	Spring 5.08/0.20	XPSUAB31CC	0.200/0.440
		Screw 5.08/0.20	XPSUAB31CP	0.200/0.440





Preventa XPS Universal

Safety modules

Type **XPSUAF**, for monitoring Emergency stop, Guard switch, Magnetic switch, Proximity safety switch, PNP sensor, RFID safety switch or Safety light curtain











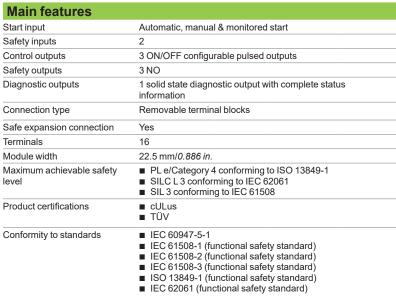


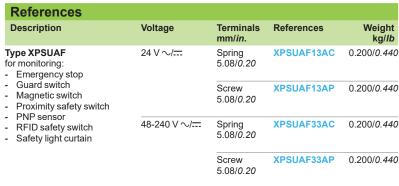
Operating principle

XPSUAF safety modules are used for providing protection 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 an issue in the safety circuit itself.

XPSUAF safety modules are used for monitoring:

- ☐ Emergency stop circuits conforming to standard ISO 13850
- □ Switches activated by protection devices conforming to standard ISO 14119:
 - Mechanical guard switches
 - Magnetic switch with antivalent or 2 NC contacts
 - Proximity safety switch with antivalent contacts
 - PNP sensor
 - RFID safety switch
- $\ \square$ Type 4 light curtains conforming to IEC 61496-1 having solid-state safety outputs with test function
- These functions are selected and the start function can be configured by selector switches on the front face.
- A solid-state diagnostic output with complete status information facilitates maintenance.
- To monitor a higher number of antivalent contacts using this safety module, the antivalent contacts can be connected with a NC in series and NO in parallel.
- 6 LEDs on the front face provide information on the monitoring circuit status.









XPSUAF•3AP

Preventa XPS Universal

Safety modules

Type **XPSUAK**, for monitoring Emergency stop, Guard switch, Magnetic switch, Proximity safety switch, PNP & NPN sensors, RFID safety switch, Safety light curtain or Sensing mat/edges



















Operating principle

XPSUAK safety modules provide protection 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 an issue in the safety circuit itself.

XPSUAK safety modules are used for monitoring:

- □ Emergency stop circuits conforming to standard ISO 13850
- □ Switches activated by protection devices conforming to standard ISO 14119:
 - Mechanical guard switches
 - Magnetic switch with antivalent or 2 NC contacts
 - Proximity safety switch with antivalent contacts
 - Sensor pair
 - 1 PNP + 1 NPN sensor
 - RFID safety switch
- $\,\Box\,$ Type 4 light curtains conforming to IEC 61496-1 having solid-state safety outputs with test function
- □ 4-wire sensing mats or edges conforming to ISO 13856
- These functions are selected and the start function can be configured by selector switches on the front face.
- A solid-state diagnostic output with complete status information facilitates maintenance.
- To monitor a higher number of antivalent contacts using this safety module, the antivalent contacts can be connected with a NC in series and NO in parallel.
- 6 LEDs on the front face provide information on the monitoring circuit status.

Main features			
Start input	Automatic, manual & monitored start		
Safety inputs	2		
Control outputs	3 ON/OFF configurable pulsed outputs		
Safety outputs	2 NO + 1 NC		
Diagnostic outputs	1 solid state diagnostic output with complete status information		
Connection type	Removable terminal blocks		
Safe expansion connection	Yes		
Terminals	20		
Module width	22.5 mm/0.886 in.		
Maximum achievable safety level	■ PL e/Category 4 conforming to ISO 13849-1 ■ SILC L 3 conforming to IEC 62061 ■ SIL 3 conforming to IEC 61508		
Product certifications	■ cULus ■ TÜV		
Conformity to standards	■ IEC 60947-5-1 ■ IEC 61508-1 (functional safety standard) ■ IEC 61508-2 (functional safety standard) ■ IEC 61508-3 (functional safety standard) ■ ISO 13849-1 (functional safety standard) ■ IEC 62061 (functional safety standard)		

References				
Description	Voltage	Terminals mm/in.	References	Weight kg/ <i>lb</i>
Type XPSUAK for monitoring: - Emergency stop - Guard switch - Magnetic switch - Proximity safety switch	24 V ∼/ 	Spring 5.08/0.20	XPSUAK12AC	0.200/0.440
		Screw 5.08/0.20	XPSUAK12AP	0.200/0.440
PNP & NPN sensorRFID safety switchSafety light curtain	48-240 V ∼/ 	Spring 5.08/0.20	XPSUAK32AC	0.200/0.440
- Sensing mat/edges		Screw 5.08/0.20	XPSUAK32AP	0.200/0.440

Preventa XPS Universal

Safety modules

Type **XPSUAT**, for monitoring Emergency stop, Guard switch, Magnetic switch, Proximity safety switch, PNP & NPN sensor, RFID safety switch, Safety light curtain or Sensing mat/edges















Operating principle

XPSUAT safety modules provide protection for both the operator and the machine by immediately stopping the dangerous movement on receipt of a stop instruction from the operator, or on detection of an issue in the safety circuit itself.

XPSUAT safety modules are used for monitoring:

- ☐ Emergency stop circuits conforming to standard ISO 13850
- □ Switches activated by protection devices conforming to standard ISO 14119:
 - Mechanical guard switches
 - Magnetic switch with antivalent or 2 NC contacts
 - Proximity safety switch with antivalent contacts
 - PNP Sensor
 - 1 PNP + 1 NPN Sensor
 - RFID safety switch
- □ Type 4 light curtains conforming to IEC 61496-1 having solid-state safety outputs with test function
- □ 4-wire sensing mats or edges conforming to ISO 13856
- □ In addition to the stop category 0 instantaneous opening safety outputs, the **XPSUAT** safety modules incorporate stop category 1 time delay outputs which allow controlled deceleration of the motor to a complete stop (for example, motor braking by variable speed drive). At the end of the preset delay, the supply is disconnected by opening the time delayed output circuits. Also the time delay from 0.1 s to 15 min can be selected by selector switches on the front face.
- These functions are selected and the start function can be configured by selector switches on the front face.
- A solid-state diagnostic output with complete status information facilitates maintenance.
- To monitor a higher number of antivalent contacts using this safety module, the antivalent contacts can be connected with a NC in series and NO in parallel.
- 8 LEDs on the front face provide information on the monitoring circuit status.

Main features	
Start input	Automatic, manual & monitored start
Safety inputs	2 positive safety inputs 24 VDC, 1 negative safety input
Control outputs	4 ON/OFF configurable pulsed outputs
Safety outputs	3 NO immediate + 3 NO configurable + 1 NC configurable
Diagnostic outputs	 1 solid state diagnostic output for time delay ending 1 solid state diagnostic output with complete status information
Connection type	Removable terminal blocks
Safe expansion connection	Yes
Terminals	27
Module width	45 mm/1.77 in.
Time delay setting	$0.1\mathrm{s}$ to $15\mathrm{min}$ by $10\mathrm{steps}$ of $0.1\mathrm{s}$ which can be multiplied by $1,10,100\mathrm{and}1000$
Maximum achievable safety level	 PL e/Category 4 conforming to ISO 13849-1 SILCL 3 conforming to IEC 62061 SIL 3 conforming to IEC 61508
Product certifications	■ cULus ■ TÜV
Conformity to standards	■ IEC 60947-5-1 ■ IEC 61508-1 (functional safety standard) ■ IEC 61508-2 (functional safety standard) ■ IEC 61508-3 (functional safety standard) ■ ISO 13849-1 (functional safety standard) ■ IEC 62061 (functional safety standard)







XPSUAT•3A3AC

XPSUAT•3A3AP

Preventa XPS Universal

Safety modules

Type **XPSUDN**, for monitoring Emergency stop, Guard switch, Magnetic switch, Proximity safety switch, PNP sensor, RFID safety switch or safety light curtain













Operating principle

XPSUDN safety modules are used for monitoring:

- $\hfill\Box$ Emergency stop circuits conforming to standard ISO 13850
- □ Switches activated by protection devices conforming to standard ISO 14119:
 - Mechanical guard switches
 - Magnetic switch with antivalent or 2 NC contacts
 - Proximity safety switch with antivalent contacts
 - PNP Sensor
 - RFID safety switch

□ Type 4 light curtains conforming to IEC 61496-1 having solid-state safety outputs with test function

- These functions are selected and the start function can be configured by selector switches on the front face.
- A solid-state diagnostic output with complete status information facilitates maintenance.
- To monitor a higher number of antivalent contacts using this safety module, the antivalent contacts can be connected with a NC in series and NO in parallel.
- 16 LEDs on the front face provide information on the monitoring circuit status.

Main features			
Start input	Automatic, manual & monitored start		
Safety inputs	6		
Control outputs	7 ON/OFF configurable pulsed outputs		
Safety outputs	3 NO + 1 NC		
Diagnostic outputs	1 solid-state diagnostic output with complete status information		
Connection type	Removable terminal blocks		
Safe expansion connection	Yes		
Terminals	32		
Module width	45 mm /1.77 in.		
Maximum achievable safety level	■ PL e/Category 4 conforming to ISO 13849-1 ■ SILCL 3 conforming to IEC 62061 ■ SIL 3 conforming to IEC 61508		
Product certifications	■ cULus ■ TÜV		
Conformity to standards	■ IEC 60947-5-1 ■ IEC 61508-1 (functional safety standard) ■ IEC 61508-2 (functional safety standard) ■ IEC 61508-3 (functional safety standard) ■ ISO 13849-1 (functional safety standard) ■ IEC 62061 (functional safety standard)		

References				
Description	Voltage	Terminals mm/in.	References	Weight kg/ <i>lb</i>
Type XPSUDN for monitoring - Emergency stop - Guard switch - Magnetic switch - Proximity safety switch - PNP sensor - RFID safety switch - Safety light curtain	24 V ∼/ 	Spring 5.08/0.20	XPSUDN13AC	0.350/0.770
		Screw 5.08/0.20	XPSUDN13AP	0.350/0.770
	48-240 V ∼/ 	Spring 5.08/0.20	XPSUDN33AC	0.350/0.770
		Screw 5.08/0.20	XPSUDN33AP	0.350/0.770





XPSUDN•3AC

XPSUDN•3AP

Operating principle, selection

Preventa XPS Universal

Safety modules

Type XPSUS, for monitoring Emergency stop, Guard switch, Magnetic switch, Proximity safety switch, PNP sensor, RFID safety switch, Safety light curtain, Two-hand control station or Enabling switch















Operating principle

XPSUS safety modules are designed to monitor two hand control stations IIIA or IIIC which must comply with International standard ISO 13851. The control stations must be designed and installed so that they cannot be activated involuntarily or easily rendered inoperative. Depending on the application, the requirements of type C standards specific to the machinery involved must be met (additional personal protection methods may have to be considered).

To initiate a dangerous movement, both operators (two-hand control pushbuttons) must be activated within an interval of 0.5 s (synchronous activation). If one of the two pushbuttons is released during a dangerous operation, the control sequence is cancelled. Resuming the dangerous operation is possible only if both pushbuttons are returned to their initial position and reactivated within the required time interval. The safety distance between the control units and the hazardous zone must be enough to ensure that when only one operator is released, the hazardous zone cannot be reached before the dangerous movement has been completed or stopped.

- With automatic, manual & monitored start, XPSUS safety modules are used for monitoring:
- □ 2 Emergency stop circuits conforming to standard ISO 13850
- □ Switches activated by protection devices conforming to standard ISO 14119:
 - 2 mechanical guard switches
 - 2 magnetic switches with antivalent or 2 NC contacts
 - 2 proximity safety switches with antivalent contacts
 - 2 independent PNP sensors
 - 2 RFID safety switches
- □ Type 4 light curtains conforming to IEC 61496-1 having solid-state safety outputs with test function
- With automatic start only, **XPSUS** safety modules are used for monitoring one two-hand control IIIA, IIIC or enabling switch.
- These functions are selected and the start function can be configured by selector switches on the front face.
- A solid-state diagnostic output with complete status information facilitates maintenance.
- To monitor a higher number of antivalent contacts using these safety modules, the antivalent contacts can be connected with a NC in series and NO in parallel.
- 8 LEDs on the front face provide information on the monitoring circuit status.

Selection						
Requirements of standard ISO 13851		Type I	Type II	Type III		
				Α	В	С
Standard ISO 13851 defines the selection of two-hand controls according to its behavior.	selection of two-hand controls (simultaneous action)					
This table details the 3 types of two-hand control conforming to ISO 13851.	Link between input and output signals					
For each type, it lists the operating characteristics and minimum requirements.	Prevention of accidental operation					
	Tamper-proof					
	Output signal reinitialised					
	Synchronous action (specified time limit)					
	Use of proven components (Category 1 conforming to ISO 13849-1)			XPSUAB		
	Redundancy with partial error detection (Category 3 conforming to ISO 13849-1)				XPSUS	
	Redundancy + Self-monitoring (Category 4 conforming to ISO 13849-1)					XPSUS
	Two-hand control station	XY2SB••	XY2SB••	XY2SB••	XY2SBee	XY2SB●●

Conforming to ISO 13849-1



Conforming to ISO 13851

Main features, references

Preventa XPS Universal

Safety modules

Type **XPSUS**, for monitoring Emergency stop, Guard switch, Magnetic switch, Proximity safety switch, PNP sensor, RFID safety switch, Safety light curtain, Two-hand control station or Enabling switch

Main features	
Start input	Automatic, manual & monitored start
Safety inputs	2
Control outputs	3 ON/OFF configurable pulsed outputs
Safety outputs	2 NO
Diagnostic outputs	1 solid-state diagnostic output with complete status information
Connection type	Removable terminal blocks
Safe expansion connection	Yes
Terminals	16
Module width	22.5 mm/0.886 in.
Maximum achievable safety level	 PL e/Category 4 conforming to ISO 13849-1 SILCL 3 conforming to IEC 62061 SIL 3 conforming to IEC 61508
Product certifications	■ cULus ■ TÜV
Conformity to standards	■ IEC 60947-5-1 ■ IEC 61508-1 (functional safety standard) ■ IEC 61508-2 (functional safety standard) ■ IEC 61508-3 (functional safety standard) ■ ISO 13849-1 (functional safety standard) ■ IEC 62061 (functional safety standard)

References						
Description	Voltage	Terminals mm/in.	References	Weight kg/ <i>lb</i>		
Type XPSUS for monitoring: Emergency stop Guard switch Magnetic switch Proximity safety switch PNP sensor RFID safety switch Safety light curtain Two-hand control station Enabling switch	24 V <i></i> √/ 	Spring 5.08/0.20	XPSUS12AC	0.200/0.440		
		Screw 5.08/0.20	XPSUS12AP	0.200/0.440		
	48-240 V √/ 	Spring 5.08/0.20	XPSUS32AC	0.200/0.440		
		Screw 5.08/0.20	XPSUS32AP	0.200/0.440		





XPSUS•2AP

Preventa XPS Universal

Safety modules

Type **XPSUEP**, for extending the number of safety contacts



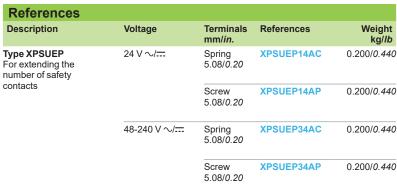
Operating principle

XPSUEP safety modules are used for extending the number of safety output contacts of XPS Universal safety modules.

They are available as additions to base modules (Emergency stop, limit switch, two-hand control, etc.). When XPSUAT is the base module, its configuration is used to choose whether the XPSUEP's outputs follow XPSUAT's immediate or time delayed outputs.

- 3 LEDs on the front face provide information on the monitoring circuit status.

Main features	
Start input	Follows the host module
Safety inputs	0, Extension bus
Safety outputs	4 NO + 2 single NC
Connection	Connection to base module by connector
Diagnostic outputs	1 solid-state diagnostic output with complete status information
Connection type	Removable terminal blocks
Terminals	16
Module width	22.5 mm/0.886 in.
Maximum achievable safety level	 PL e/Category 4 conforming to ISO 13849-1 SILCL 3 conforming to IEC 62061 SIL 3 conforming to IEC 61508
Product certifications	■ cULus ■ TÜV
Conformity to standards	■ IEC 60947-5-1 ■ IEC 61508-1 (functional safety standard) ■ IEC 61508-2 (functional safety standard) ■ IEC 61508-3 (functional safety standard) ■ ISO 13849-1 (functional safety standard) ■ IEC 62061 (functional safety standard)







XPSUEP•4AP

Safety modules

Accessories

Presentation

XPSEC is a set of plastic coding elements for terminal blocks

References			
Description	Use for	Unit reference	Weight kg/lb
Terminal block coding bit	For coding the terminal block	XPSEC Sold in lot of 30	0.010/ 0.020



Presentation

XPSES is a set of uniquely numbered sealing strips used to seal the transparent front cover flap of any XPS Universal module to prevent operator or maintenance to change the configuration.





Safety modules

Substitution table

<u> </u>	ommercialization)	XPS Universal safety modu		10	I A statistics and a
leference	Quantity Group		uantity Group	Comment	Additional comment
PSAF5130	1 -	XPSUAF13AP 1	-	Direct replacement	-
PSAF5130P	1 -	XPSUAF13AP 1	-	Direct replacement	-
PSAFL5130	1 -	XPSUAF13AP 1	-	Direct replacement	-
PSAFL5130P	1 -	XPSUAF13AP 1	-	Direct replacement	- VPOLIAKI ANOL II VPOAI
PSAK311144	1 -	XPSUAK12AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSAF
PSAK311144P	1 -	XPSUAK12AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSAF
PSAK331144P	1 -	XPSUAK32AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSAk
PSAK351144	1 -	XPSUAK32AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSAF
PSAK351144P	1 -	XPSUAK32AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSAF
PSAK361144	1 -	XPSUAK32AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSA
PSAK361144P	1 -	XPSUAK32AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSA
PSAK371144	1 -	XPSUAK32AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSA
PSAK371144P	1	XPSUAK32AP 1	-	Direct replacement	XPSUAK have 1 NO less than XPSA
PSAR311144	1 Global group 1	XPSUAT13A3AP 1	1	OR	If max. 6 NO are used
PSAR311144	1 Global group 1	XPSUAF13AP 1	1	AND	If all 7 NO are used
PSAR311144	1 Global group 1	XPSUEP14AP 1	1		
PSAR311144P	1 Global group 2	XPSUAT13A3AP 1	2	OR	If max. 6 NO are used
PSAR311144P	1 Global group 2	XPSUAF13AP 1	2	AND	If all 7 NO are used
PSAR311144P	1 Global group 2	XPSUEP14AP 1	2		
PSAR351144	1 Global group 3	XPSUAT33A3AP 1	3	OR	If max. 6 NO are used
PSAR351144	1 Global group 3	XPSUAF33AP 1	3	AND	If all 7 NO are used
PSAR351144	1 Global group 3	XPSUEP14AP 1	3		
PSAR351144P	1 Global group 4	XPSUAT33A3AP 1	4	OR	If max. 6 NO are used
PSAR351144P	1 Global group 4	XPSUAF33AP 1	4	AND	If all 7 NO are used
PSAR351144P	1 Global group 4	XPSUEP14AP 1	4		ii ali 7 NO ale useu
PSAR351144P	1 Global group 4 1 Global group 5	XPSUEP14AP 1	4 5	OR	If max. 6 NO are used
				AND	
PSAR371144	. 0.000. 9.000		5	AND	If all 7 NO are used
PSAR371144	1 Global group 5	XPSUEP14AP 1	5	OD	If C NIO I
PSAR371144P	1 Global group 6	XPSUAT33A3AP 1	6	OR	If max. 6 NO are used
PSAR371144P	1 Global group 6	XPSUAF33AP 1	6	AND	If all 7 NO are used
PSAR371144P	1 Global group 6	XPSUEP14AP 1	6		
PSATE3410	1 -	XPSUAT33A3AP 1	-	Direct replacement	-
PSATE3410P	1 -	XPSUAT33A3AP 1	-	Direct replacement	-
PSATE3710	1 -	XPSUAT33A3AP 1	-	Direct replacement	-
PSATE3710P	1 -	XPSUAT33A3AP 1	-	Direct replacement	-
PSATE5110	1 -	XPSUAT13A3AP 1	-	Direct replacement	-
PSATE5110P	1 -	XPSUAT13A3AP 1	-	Direct replacement	-
PSATR11530C	1 -	XPSUAT13A3AC 1	-	Direct replacement	-
PSATR11530P	1 -	XPSUAT13A3AP 1	-	Direct replacement	-
PSATR1153C	1 -	XPSUAT13A3AC 1	-	Direct replacement	-
PSATR1153P	1 -	XPSUAT13A3AP 1	-	Direct replacement	-
PSATR39530C	1 -	XPSUAT33A3AC 1		Direct replacement	-
PSATR39530P	1 -	XPSUAT33A3AP 1	_	Direct replacement	-
PSATR3953C	1 -	XPSUAT33A3AC 1	_	Direct replacement	-
PSATR3953P	1 -	XPSUAT33A3AP 1	_	Direct replacement	-
PSAV11113	1 -	XPSUAT13A3AP 1	-	Direct replacement	-
PSAV11113P	1 -	XPSUAT13A3AP 1		Direct replacement	-
PSAV11113T050	· ·				
	<u>'</u>	711 00711 10710711	-	Direct replacement	
PSAV11113Z002	1 -	XPSUAT13A3AP 1	-	Direct replacement	-
PSBAE3920C	1 -	XPSUAB31CC 1	-	Direct replacement	-
PSBAE3920P	1 -	XPSUAB31CP 1	-	Direct replacement	-
PSBAE5120C	1 -	XPSUAB11CC 1	-	Direct replacement	-
PSBAE5120P	1 -	XPSUAB11CP 1	-	Direct replacement	-
PSBCE3110C	1 -	XPSUS12AC 1	-	Direct replacement	-
PSBCE3110P	1 -	XPSUS12AP 1	-	Direct replacement	-
PSBCE3410C	1 -	XPSUS32AC 1	-	Direct replacement	-
PSBCE3410P	1 -	XPSUS32AP 1	-	Direct replacement	-
PSBCE3710C	1 -	XPSUS32AC 1	-	Direct replacement	-
PSBCE3710P	1 -	XPSUS32AP 1	-	Direct replacement	-
PSBF1132	1 -	XPSUS12AP 1	-	Direct replacement	-
PSBF1132P	1 -	XPSUS12AP 1	-	Direct replacement	-
PSDMB1132	1 -	XPSUS12AP 1	-	Direct replacement	-
PSDMB1132P	1 -	XPSUS12AP 1	-	Direct replacement	-
PSDME1132	1 -	XPSUDN13AP 1	_	Direct replacement	-
PSDME1132P	1 -	XPSUDN13AP 1	-	Direct replacement	-
PSDME1132TS220	1 -	XPSUDN13AP 1		Direct replacement	
					Only in combination with VDOLL beat
PSECME5120C	1 -	XPSUEP14AC 1	-	Indirect replacement	Only in combination with XPSU host
PSECME5120P	1 -	XPSUEP14AP 1	-	Indirect replacement	Only in combination with XPSU host
PSECME5131C	1 -	XPSUEP14AC 1	-	Indirect replacement	Only in combination with XPSU host
PSECME5131P	1 -	XPSUEP14AP 1	-	Indirect replacement	Only in combination with XPSU host
PSFB3411	1 -	XPSUS12AP 1	-	Direct replacement	-
PSFB3711	1 -	XPSUS12AP 1	-	Direct replacement	-
PSFB5111	1 -	XPSUS12AP 1	-	Direct replacement	-
PSVC1132	1 -	XPSUS12AP 1	-	Direct replacement	-
PSVC1132P	1 -	XPSUS12AP 1	-	Direct replacement	-

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