Explosion-proof aluminum and plastic packet-type switches, ExGN, 2ExedIICT6, 1ExdIICT6, RV ExdI, RPExdel





## **Application**

ExGN series explosion-proof packet-type cam switches and load switches designed for remote control of electric drives of machines and devices in stationary plants and on mobile means of land and sea transport, as well as for signaling related to these electric drives or other electric devices. They are used in underground workings of coal shafts and mines, including ones that have gas and/or dust explosion hazard.

## Special features

- · almost any switching circuit is possible
- switches keep operating at temperatures of up to -60°C

Technical Specifications	
Explosion protection marking	1ExdIICT6, 2ExedIICT6, RV ExdI, RP Exdel, 1ExdIICT6X
Material of switch enclosures	aluminum alloy or plastic
Ingress Protection	IP66
Nominal voltage	up to 690 V
Rated current	up to 63 A

Explosion-protection type	Ambient temperature (depends on version)
RV Exdl	from -20°C to + 40°C
1ExdIICT6, 2ExedIICT6, 1ExdIICT6X, RP Exdel	from -35°C to + 50°C
	from -50°C to + 50°C
	from -60°C to + 50°C
	from -30°C to + 45°C

3

Rated current, A	Types of switches					
	ExGN12, GN12	ExGN20, GN20	ExGN25, GN25	GN32	GN40	GN63
	12	20	25	32	40	63

### Design

An ExGN switch with 2ExedIICT6 or RP Exdel marking is rated as extra explosion-resistant electrical equipment and consists of a cover and a case with the ExGN switch (Ex-component with ExdeIICU explosion-proof marking has a fixed cover and consists of general industrial switch with not more than 4 contact elements placed into a capsule filled with compound).

A switch with 1ExdIICT6 or RV ExdI marking is an ExGN series switch (Ex-component) integrated into an explosion-proof enclosure and consists of a cover and a case with the ExGN switch (Ex-component) installed on the cover. Load switches control is realized through thru shaft with cylindrical explosion-proof connecting plug cover.

1ExGN, RV ExGN and 2ExGN, RP ExGN switches have two cable glands - VK25 placed along B and D sides

Switches can be completed with other types of glands with explosion-proof marking suitable for the switches according to customer's demand. Cam switches with 1ExdIICT6X marking is ExGN series designed for electric circuits laid in pipes without pipe cable entries, with straight connection of pipes to switch case having holes with thread G1. "X" sign in explosion-proof marking indicates their special using conditions, as follows: the use of these items is possible in pipes filled with compound keeping all the requirements referred to operation manual, as switch of general industrial is placed into explosion-proof case. If other thread sizes are required, use adapters with ExdIIC/ExeII explosion protection marking.

#### Scope of Delivery

Scope of delivery includes

switch -1 pcs.
operation manual -1 copy
passport -1 copy

## Catalog Number Logic

#### X1ExGNX2T-X3

X1 - explosion protection marking:

"RVEx.." or "1Ex.." - explosion-proof switch;

"RPEx.." or "2Ex.." - extra explosion-resistant switch.

GN - switch series

X2 - rated current, A

T - pipe gland version. If pipe gland is unnecessary, index is not specified.

**X3** - code of circuit. It is selected according to commutation programme.

## Order formulation example:

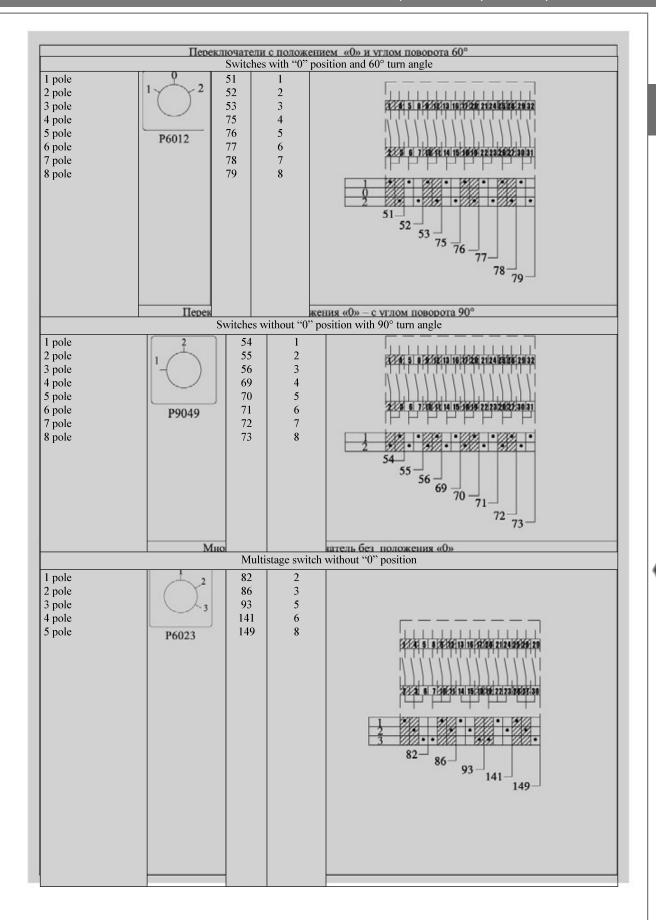
2ExGN25-100 Which stands for:

switch for rated current 25 A, circuit 100, turn angle 60°, explosion protection marking 2ExedIICT6.

Emotion	Docition of Imale		Number of			Circuit
Function Position of knob		Circuit	contact elements			Circuit
		Swite	hes with 60° t	urn ang	gle	
l pole	(1)	90	1			3/24/5 8 8/202 13 18/3029/2124
2 pole 3 pole 4 pole 5 pole 6 pole P6001		91 1 10 2 92 2 99 3 100 3		9:31 61 7 180 201 181 181 182 203 1 8:50 0 0 5:50 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
7 pole 8 pole 9 pole		37 38 39	4 4 5	90		91-
10 pole 11 pole 12 pole		40 41 42	5 6 6	92 J J J J J J J J J J J J J J J J J J J		997 100 <sub>37</sub> 38 3940 4140
3-pole (with 360°	turn	09	2			# <i>E</i>
angle) 1————————————————————————————————————						2734 8
				атом с углом поворота 30°		
	Переключател Swi	tches with	spring return	and 30	° turn angle	ворота эо-
1 pole 2 pole 3 pole 4 pole	with spring return in "0"		001	01 02 03 04	1 1 2 2 2	223 6 7 01 02 03 04
1 pole 2 pole 3 pole	with spring return in "0"	P30		201 202 203	1 2 3	03 - 04 03 - 04 03 - 04 03 - 04 03 - 04 04 04 04 04 04 04 04 04 04

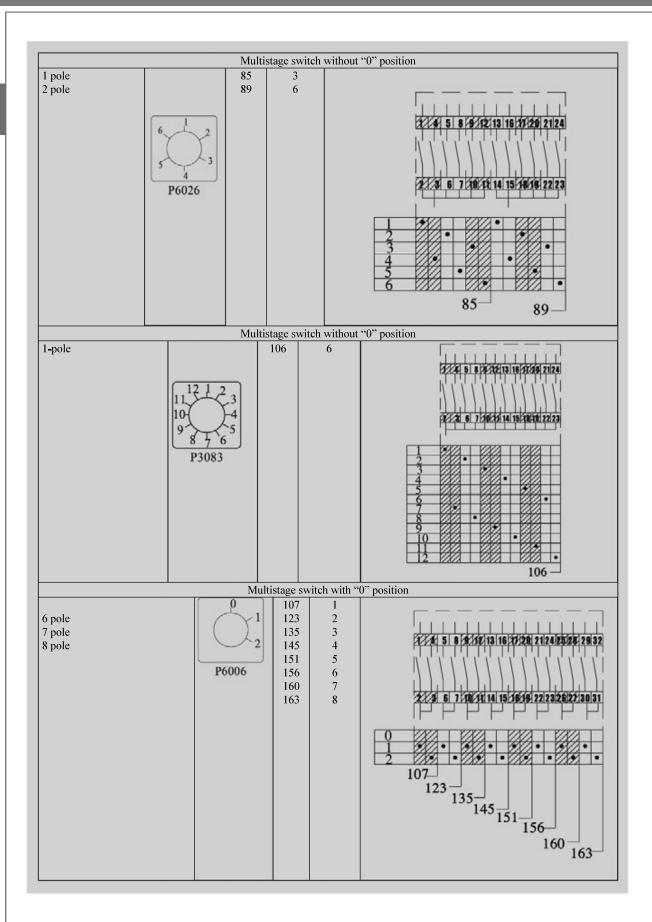




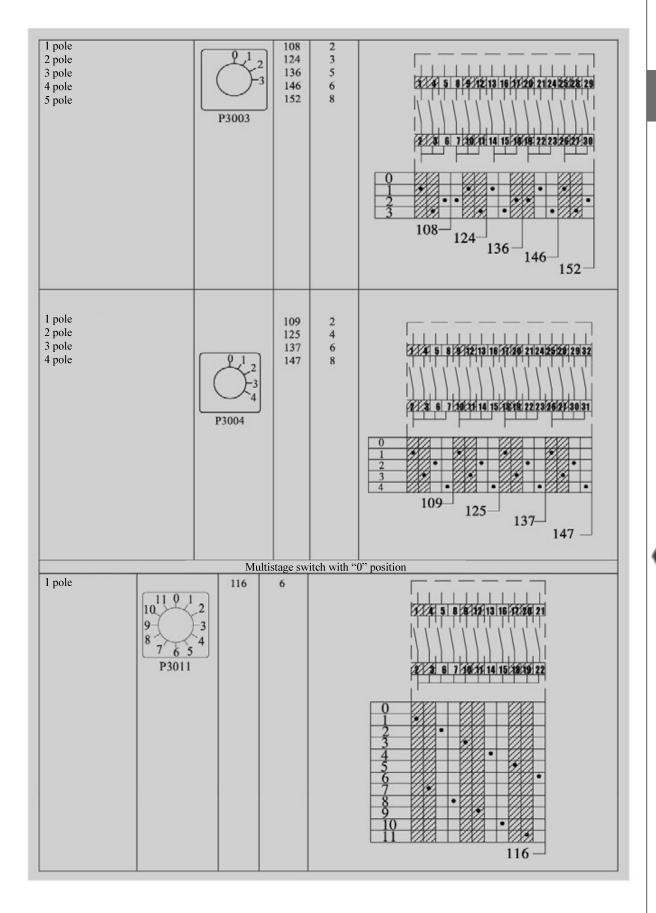




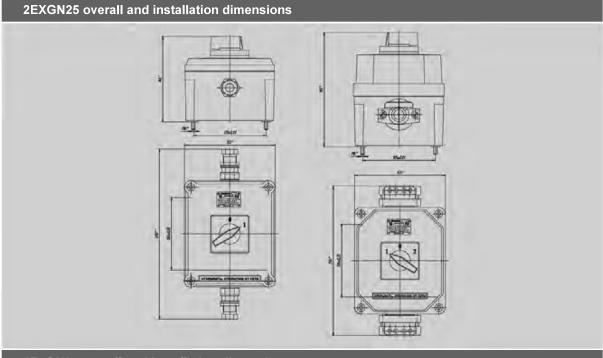
www.velan-td.com











# 1ExGN25 overall and installation dimensions

