



# FOX ROTARY LIMIT SWITCH

Fox is a device used to control the movement of industrial machinery when in need of measuring the movement on the basis of the rotation angle and/or of the number of shaft revolutions. Fox is made up by a gearmotor which transfers the movement to the cams and to the other movement detection devices placed inside it through a primary input reduction step (worm gear and helical toothed gear) and one or more secondary output steps (pairs of straight toothed gears).

Fox is used on wind turbines to control the position of the nacelle or the pitch angle of the blades. The motor that controls the rotation of a wind turbine on the yaw axis (or of the blade around its longitudinal axis) transfers the movement to the limit switch. A rotary encoder reads the rotation of the shaft, and its pulses are sent to a PLC which controls the position of the nacelle or of the blade. The movement of the shaft is also transferred, through a gearmotor, to a series of cam switches: the appropriate setting of the actuating point of the cams can signal up to four critical positions of the movement of the nacelle or of the blade.

#### FEATURES

Revolution ratios, ranging from 1:3 to 1:2870, result from the combination of different secondary output steps. Each cam can be set with great accuracy thanks to the cam adjusting screws. The auxiliary switches are of a positive opening type, thus suitable for safety functions.



INDUSTRIAL LIFTING



CONSTRUCTION LIFTING



INDUSTRIAL AUTOMATION





TECHNOLOGY

WIND ENERGY

### OPTIONS

Fox can be fitted with different combinations of actuators and motion detectors: sets of cams and microswitches (max. 5), potentiometers or encoders (max. 1), absolute encoder Yankee 1 for set of cams and microswitches (max. 1).

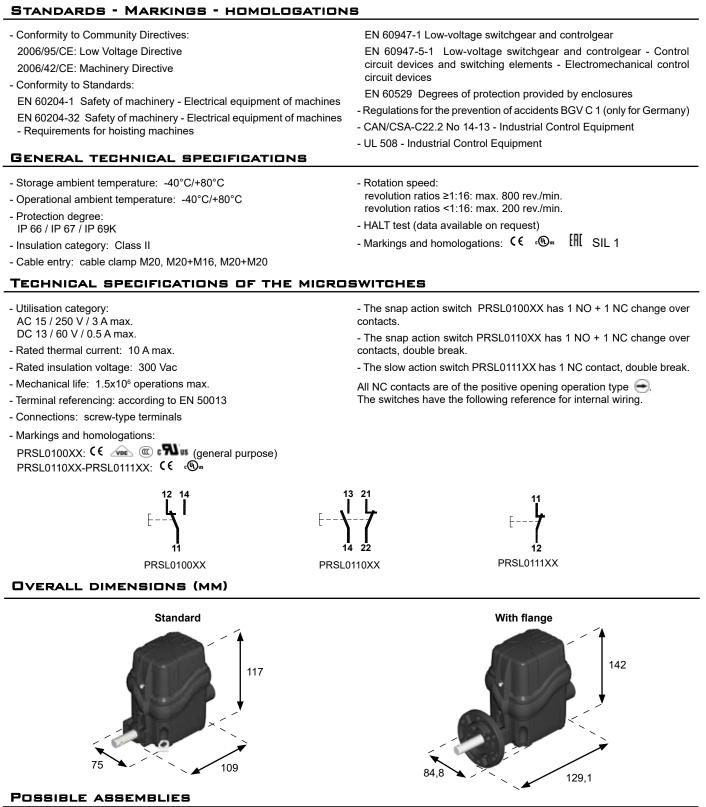
It is possible to fit together sets of cams and microswitches, potentiometers, encoder and Yankee 1, thus creating a device featuring redundancy and diversity.

The limit switch is available with a flange for direct coupling to the motor. Different labels and colors are also available.

#### MATERIALS

Fox features transmission and gear driving shafts made of stainless steel AISI 430F or AISI 303, worm gear transmission shaft rotating on ball bearings, self-lubricating techno-polymer gears and driving bushes, techno-polymer base and cover. All techno-polymers used for the enclosure are wear resistant and protect the equipment against water and dust.

### BUSINESS PARTNER



With set of cams, Yankee 1 absolute encoder



Yankee 1 absolute encoder



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### TER Tecno Elettrica Ravasi srl

Via Garibaldi 29/31 - 23885 Calco (LC) - Italy Registered Office - via San Vigilio 2 - 23887 Olgiate Molgora (LC) - Italy Tel. +39 0399911011 - Fax +39 0399910445 - E-mail: info@terworld.com

#### www.terworld.com

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#### TECHNICAL SPECIFICATIONS OF THE MICROSWITCHES

Code	PRSLOIDOXX	PRSLD11DXX	PRSLD111XX	
Utilisation category	AC 15 DC13	AC 15		
Rated operational voltage	125 V / AC 15 230 V / AC 15 60 V / DC 13	250 V		
Rated operational current	2 A / 125 V / AC 15 1 A / 230 V / AC 15 0,5 A / 60 V / DC 13	3 A		
Rated thermal current	6 A	10	A	
Rated insulation voltage	250 V~	300	) V~	
Mechanical life	1,5x10 <sup>6</sup> operations	1x10 <sup>6</sup> operations		
Terminal referencing	According to EN 50013	According to EN 50013		
Connections	screw-type terminals with self-lifting pads	screw-type terminals with self-lifting pads		
Wires	0,25 mm² - 1,5 mm²	1x2.5 mm <sup>2</sup> , 2x1.5 mm <sup>2</sup> (UL: copper conductor (CU) 60°C or 75°C with soft or stit wire 14-16 AWG)		
Tightening torque	0,5 Nm - 0,6 Nm	0,5	Nm	
Switch type	Single break, snap action	Double break, snap action	Double break, slow action	
Contacts	1NO + 1NC change over (All NC contacts are of the positive opening operation type )	1NO + 1NC change over (All NC contacts are of the positive opening operation type )	1NC (All NC contacts are of the positive opening operation type )	
Scheme			E	
Markings and homologations	C€ ∠∞∞ ແ ເຈນີທ (general purpose)	<b>ر ز</b> شهر		

#### TECHNICAL SPECIFICATIONS OF THE POTENTIOMETERS

Code with support	PA020001	PA020002			
Ohmic value	10 kΩ	10 k $\Omega$ mechanical stop			
Resolution	Infi	nite			
Independant linearity	±	1%			
Life time	10x10 <sup>6</sup> movements				
Operational ambient temperature	-55°C / +105°C				
Continuos rotation (without stop)	360°				
Continuos rotation (with stop)	333° ± 5°				
Actual electrical angle	310° ± 5°				
Ohmic value tolerance	± 20%				

Code with support	PA020003	PA020004	PA020005	
Ohmic value	10 kΩ	10 kΩ	5 kΩ	
Connections	4 turrets	3 turrets	4 turrets	
Indipendent linearity (over AEA -3°)	≤±1%	≤±0,35 %	≤±1%	
Life time	5x10 <sup>6</sup> movements			
Operational ambient temperature		-55°C / +125°C		
Mechanical angle		360° continuous		
Actual Electrical Angle (AEA)	340° ± 5°			
Ohmic value tolerance	max ± 20 % at 20°C	max ± 10 % at 20°C	max ± 20 % at 20°C	

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#### TECHNICAL SPECIFICATIONS OF THE ENCODERS

Code with support	PA030001	PA030002			
Resolution	36 pulses/rev.	150 pulses/rev.			
Operational ambient temperature	-40°C /	/ +85°C			
Code	Incremental				
Supply voltage	4,5 Vdc min. to 30 Vdc max. (35 mA max no load)				
Output voltage	Low: 500 mV max. at 10 mA High: (Vin – 0,6) at -10 mA (Vin – 1,3) at -25 mA				
Output current	25 mA max. load per output channel				
Output format	Two channel (A, B) qu	adrature with Index (Z)			
Phase sense	A leads B clockwise (CW) from t	he mounting end of the encoder			
Accuracy	+/- 0,8 a	arc-min.			
Outputs	Push pull				
Electrical protection	Reverse polarity and output short circuit protected				

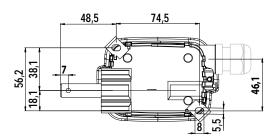
### TECHNICAL SPECIFICATIONS OF THE ABSOLUTE ENCODER YANKEE 1

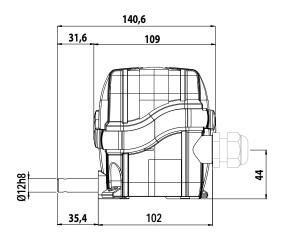
Code	PAD1AAD1	PAD1ABD1	PAC1ACC1		
Analog Output	Current 4÷20mA	Voltage 0÷10V	PWM 0÷100%		
Operational ambient temperature	-40°C / +80°C				
Power supply	12 ÷ 48 VDC / 12 ÷ 48 Vac				
Protection against polarity inversion	yes				
Absorption	50 mA				
Resolution		12 bit			
Linearity		+/- 0,5°			
Max. hysteresis		0,1°			
Setting Zero Point	through button/wire				
Signal increment direction	CW (standard) / CCW (on request)				
Connections		terminal board			

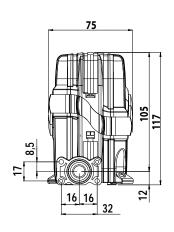
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STANDARD

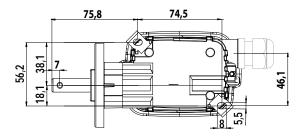


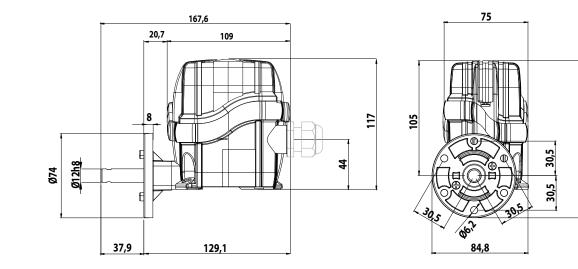


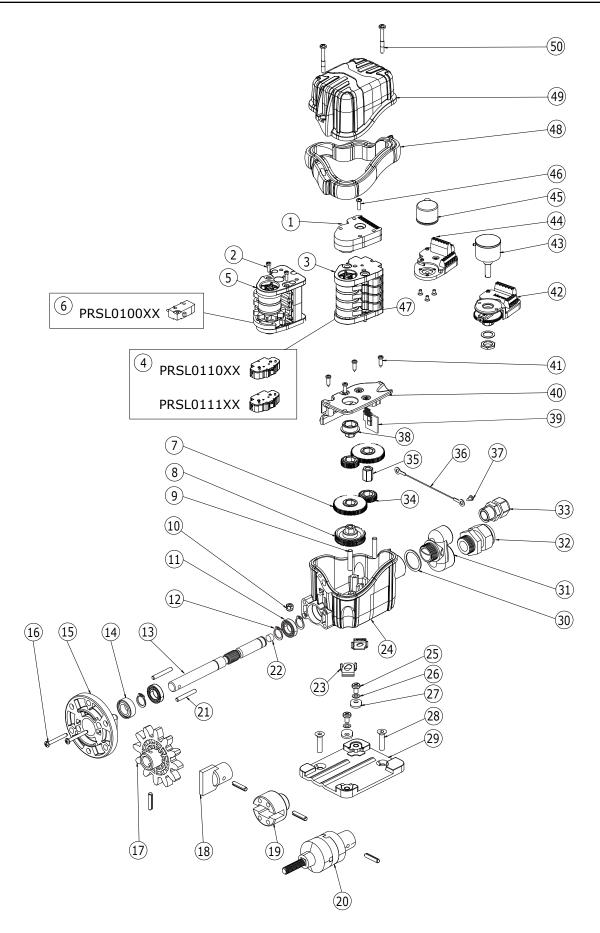


142

WITH FLANGE







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#### COMPONENTS

SWITCHES

REF. DRAWING DESCRIPTION SCHEME CODE 1NO+1NC switch PRSL0110XX double break, snap action 4 1NC switch PRSL0111XX double break, slow action 12 14 1NO+1NC switch E--PRSL0100XX 6 single break, snap action

STANDARD CAM SETS

REF.	DRAWING	No. AND TYPE OF CAMS	No. AND TYPE OF SWITCH	SET CODE
		2 cams D	2 PRSL0110XX switches	FCL20001
	$\sim$	2 cams D	2 PRSL0111XX switches	FCL20002
	( A A A A A A A A A A A A A A A A A A A	Cams D+E	2 PRSL0110XX switches	FCL20003
		Cams D+E	2 PRSL0111XX switches	FCL20004
		2 cams E	2 PRSL0110XX switches	FCL20005
		2 cams E	2 PRSL0111XX switches	FCL20006
_	, m	3 cams D	3 PRSL0110XX switches	FCL30001
	<b>E</b>	3 cams D	3 PRSL0111XX switches	FCL30003
		3 cams E	3 PRSL0110XX switches	FCL30002
		3 cams E	3 PRSL0111XX switches	FCL30004
-		Cams F + F + C + B	4 PRSL0110XX switches	FCL40001
3		Cams F + F + C + B	4 PRSL0111XX switches	FCL40002
		4 cams D	4 PRSL0110XX switches	FCL40003
		4 cams D	4 PRSL0111XX switches	FCL40004
		Cams D + D + E + E	4 PRSL0110XX switches	FCL40005
		Cams D + D + E + E	4 PRSL0111XX switches	FCL40006
		4 cams E	4 PRSL0110XX switches	FCL40007
		4 cams E	4 PRSL0111XX switches	FCL40008
		Cams E + E + E + A	4 PRSL0110XX switches	FCL40009
		Cams E + E + E + A	4 PRSL0111XX switches	FCL40010
		Cams D + D + A + A	4 PRSL0110XX switches	FCL40011
		Cams D + D + A + A	4 PRSL0111XX switches	FCL40012
	Ø	2 cams D	2 PRSL0100XX switches	FCN20001
	<u>E</u>	Cams D+E	2 PRSL0100XX switches	FCN20002
		2 cams E	2 PRSL0100XX switches	FCN20003
-		Cams F + F + C + B	4 PRSL0100XX switches	FCN40001
5	p d	4 cams D	4 PRSL0100XX switches	FCN40002
	(Seff)	Cams D + D + E + E	4 PRSL0100XX switches	FCN40003
		4 cams E	4 PRSL0100XX switches	FCN40004
		Cams E + E + E + A	4 PRSL0100XX switches	FCN40005
		Cams D + D + A + A	4 PRSL0100XX switches	FCN40006

Other sets with 2-3-4 or 5 cams/switches available on request. PRSL0100XX only for 2 or 4 cam sets.

	CAM REFERENCE CHART									
CODE FOR MECHANICAL PRSLO110XX PRSL0100XX ANGLE PRSL0111XX PRSL0100XX SWITCHES		CAM MECHANICAL PRSL0110XX CODE FOR ANGLE PRSL0111XX PRSL0100XX C		CAM MECHANICAL PRSL0110XX CODE FOR ANGLE PRSL0111XX PRSL0100XX CAM		Mechanical angle	CODE FOR PRSLO110XX PRSLO111XX SWITCHES	CODE FOR PRSL0100XX SWITCHES		
A	Ø	180°	PRSL7191PI	PRSL7121PI	D	Q	-	PRSL7194PI	PRSL7124PI	
в	Ô	320°	PRSL7192PI	PRSL7122PI	Е	Ø	60°	PRSL7195PI	PRSL7125PI	
с	<b>Ø</b>	-	PRSL7193PI	PRSL7123PI	F	Ø	72°	PRSL7196PI	PRSL7126PI	

#### SENSORS, POTENTIOMETERS AND ENCODERS

REF.	DRAWING	DESCRIPTION	CODE
		Yankee 1 - current output	PA01AA01
1		Yankee 1 - voltage output	PA01AB01
		Yankee 1 - PWM output	PA01AC01
		Potentiometer MCB 10 k $\Omega$ with support	PA020001
	_	Potentiometer MCB 10 k $\Omega$ mechanical stop with support	PA020002
43+42		Potentiometer Sfernice 10 k $\Omega$ ±10% 4 pins with support	PA020003
		Potentiometer Sfernice 10 k $\Omega$ ±10% 3 pins with support	PA020004
	_	Potentiometer Sfernice 5 k $\Omega$ ±10% with support	PA020005
42		Support for potentiometer	PA020000
45+44		Encoder 36 pulses./rev. with support	PA030001
40744		Encoder 150 pulses./rev. with support	PA030002
44	Support for encoder		PA030000

#### PINION GEARS

REF.	DRAWING	DESCRIPTION	Code								
		Pinion gear M10 Z12 with pin	PRSL0911PI								
		Pinion gear M12 Z10 with pin	PRSL0912PI								
	-	Pinion gear M14 Z10 with pin	PRSL0913PI								
	APA-	Pinion gear M16 Z10 with pin	PRSL0914PI								
17			SONE .	SCAR	STAR			So and	So its	Pinion gear M20 Z8 with pin	PRSL0915PI
			Pinion gear M5 Z12 with pin		PRSL0916PI						
		Pinion gear M6 Z11 with pin	PRSL0917PI								
	Pinion gear M8 Z12 with pin		PRSL0918PI								
		Pinion gear M12 Z12 with pin	PRSL0944PI								

Other pinion gears available: see "Gears and pinion gears" catalog

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REF.	DRAWING	DESCRIPTION	Code
15+16+21		Flage with screws and pins	PRSL0356PI
18	D.	Male coupling with pin	PRSL0919PI
19		Female coupling with pin	PRSL0920PI
20	a alle	Coupling with pin	PRSL0981PI
23	6 C	Feet	PRTR0150PE
25+26+27 +28+29		Fixing plate	PRSL0425PI
32	SP)	Cable clamp M20	PRPS0064PE
33	ODD	Cable clamp M16	PRPS0062PE
36		Cover holding wire	PRVV9140PE
49+48		Cover with tightening rubber	PA090005

#### REMARKS

#### STANDARD LIMIT SWITCHES

All standard limit switches are equipped with cams PRSL7194PI O for PRSL0110XX and PRSL0111XX switches, PRSL7124PI O for PRSL0100XX switches and shafts made of stainless steel AISI 430F.

	REAL REVOLUTION RATIO	_	Switches				
RATED REVOLUTION RATIO		NUMBER OF CAMS AND SWITCHES		PRSLD110XX			
10.112			1 N D + 1 N C	1 N D + 1 N C	1 NC		
			CODE	CODE	CODE		
		2	PFB9067A0016002	PFB9067L0016010	PFB9067L0016012		
1 : 15	1 : 16	3	-	PFB9067L0016011	PFB9067L0016013		
		4	PFB9067A0016003	PFB9067L0016008	PFB9067L0016014		
		2	PFB9067A0020001	PFB9067L0020006	PFB9067L0020008		
1 : 20	1 : 20,21	3	-	PFB9067L0020007	PFB9067L0020009		
	-	4	PFB9067A0020002	PFB9067L0020004	PFB9067L0020010		
		2	PFB9067A0027007	PFB9067L0027007	PFB9067L0027017		
1 : 25	1 : 27,27	1 : 27,27	3	-	PFB9067L0027016	PFB9067L0027018	
	-	4	PFB9067A0027008	PFB9067L0027014	PFB9067L0027019		
		2	PFB9067A0062006	PFB9067L0062033	PFB9067L0062045		
1 : 50	1:62	3	-	PFB9067L0062044	PFB9067L0062046		
	-	4	PFB9067A0062009	PFB9067L0062003	PFB9067L0062025		
		2	PFB9067A0075005	PFB9067L0075008	PFB9067L0075010		
1:75	1 : 75,48	3	-	PFB9067L0075009	PFB9067L0075004		
	-	4	PFB9067A0075006	PFB9067L0075006	PFB9067L0075011		
		2	PFB9067A0103009	PFB9067L0103037	PFB9067L0103038		
1:100	1 : 103,44	3	-	PFB9067L0103049	PFB9067L0103027		
	-	4	PFB9067A0103008	PFB9067L0103030	PFB9067L0103050		
		2	PFB9067A0162006	PFB9067L0162007	PFB9067L0162008		
1 : 150	1 : 162,52	3	-	PFB9067L0162006	PFB9067L0162009		
	-	4	PFB9067A0162007	PFB9067L0162003	PFB9067L0162002		
		2	PFB9067A0222005	PFB9067L0222011	PFB9067L0222014		
1 : 200	1 : 222,58	3	-	PFB9067L0222013	PFB9067L0222015		
	-	4	PFB9067A0222001	PFB9067L0222010	PFB9067L0222016		
		2	PFB9067A0254003	PFB9067L0254019	PFB9067L0254010		
1 : 250	1 : 254,57	3	-	PFB9067L0254020	PFB9067L0254021		
	-	4	PFB9067A0254004	PFB9067L0254008	PFB9067L0254022		

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#### FOX - REQUEST FORM FOR NON STANDARD LIMIT SWITCHES

Cam set				Cams			Shaft	
Standard cam set*	Custo cam :	omised				Codes for PRSL0100XX	Shaft made of stainless steel AISI 430F	
			]		PRSL0111XX switches	switches	Shaft made of I	
	CAMS	CHES	]	A (180°)	PRSL7191PI	PRSL7121PI	│	AISI 303 - — — — — — — —
	CAMS SWITCHES				PRSL7192PI	PRSL7122PI	Revolution ratio	1.150
			]				1:15	1:150
* Mark the number correspo	onding to th	a cam sat	required if		PRSL7193PI	PRSL7123PI	[] 1:20	1:200
standard; otherwise mark the cams and switches required. PRSL0100XX only for 2 or 4	letters corre	esponding to	o the single		PRSL7194PI	PRSL7124PI	1:25	1:250
Standard cam sets	-			E ((60°)	PRSL7195PI	PRSL7125PI	1:50	1:300
	s Switches	5					1:75	1:450
	X I	S I	x	F (72°)	PRSL7196PI	PRSL7126PI	1:100	1:
	PRSL0100XX	PRSL0110XX	PRSL0111XX	(Degrees correspond to	mechanical angle)		Male coupling	
Cams	PRSI	PRSI	PRSI	Switches				
DD	1	10	21	X PRSL0100	XX		Female coupling	
DE	2	11	22	Y PRSL0110	Χ			
	3			Z PRSL0111X	x		Coupling	A
	3	12	23	Potentiometer				AP LAD
	-	13	24	PA020001			Flange	
	-	14	25	PA020002	i			
F F C B	4	15	26	PA020003				· — — — — — — — — — — — — — — — — — — —
	5	16	27	       PA020004				
DDEE	6	17	28	PA020005				(AD)
EEEE	7	18	29				PRSL0911PI	M10 Z12
EEEA	8	19	30	Encoder			PRSL0912PI	M12 Z10
DDAA	9	20	31	PA030002			PRSL0913PI	M14 Z10
						_	PRSL0914PI	M16 Z10
				Yankee 1 *	(		PRSL0915PI	M20 Z8
Remarks				PA01AB01	ł		PRSL0916PI	M5 Z12
							PRSL0917PI	M6 Z11
				* Programmable			PRSL0918PI	M8 Z12
					ia naasihla	to mount 1	PRSL0944PI	M12 Z12
				ATTENTION: it potentiometer, encoder Yankee a set of cams.	1 encoder o	r 1 absolute	Customised	MZ
				Yankee 1 can b of 2, 3 or 4 can b		only with sets	·	
				Potentiometers	PA020001 ar		M20	M20 + M16
				can be mounted Any other stan	dard potent	iometer and	M20 + M20	
				encoder can be 3 cams.	mounted wit	n sets of 2 or	SIL1 Version	

#### USE AND MAINTENANCE INSTRUCTIONS

Fox rotary limit switch is an electromechanical device for low voltage control circuits (EN 60947-1, EN 60947-5-1) to be used as electrical equipment on machines (EN 60204-1) in compliance with the fundamental requirements of the Low Voltage Directive 2006/95/CE and of the Machine Directive 2006/42/CE.

The limit switch is designed for use in industrialal environments under even severe climatic conditions (operational temperature from  $-40^{\circ}$ C to +80°C, suitable for use in tropical environment). The equipment is not suitable for use in environments with potentially explosive atmosphere, corrosive agents or a high percentage of sodium chloride (saline fog). Oils, acids or solvents may damage the equipment; avoid using them for cleaning. Do not connect more than one phase to each switch. Do not oil or grease the control elements or the switches.

The limit switch is supplied with a bag of accessories including: 2 fixing feet (9), 2 self-locking nuts (7), 2 metric screws (1), 1 no-drop wire (2), 1 self-tapping screw (3),

1 cable clamp (4). Furthermore, accessories may include, in addition to the above-mentioned parts and instead of the cable clamp (4), 1 double cable clamp holder (14), 2 cable clamps M20 (15) or 1 cable clamp M20 (15) and 1 cable clamp M16 (16).

The installation of the limit switch shall be carried out by expert and trained personnel. Wiring shall be properly done according to the current instructions.

Prior to the installation and the maintenance of the limit switch, the main power of the machinery shall be turned off.

#### Steps for the proper installation of the limit switch

- place the self-locking nuts (7) in their seats in the enclosure (6)

- insert one end of the no-drop wire (2) into the self-tapping screw (3) and tighten the screw into its hole on the enclosure (6)
- insert the fixing feet (9) into their seats in the lower part of the enclosure (6)

- connect the limit switch shaft (08) and the reduction gear shaft avoiding any misalignment between the two shafts

- fix the limit switch tight in order to avoid vibrations of the equipment during operation; for fixing operations use only the feet (9) with metric screws M4 or M5 and their washers

- in case a single multicore cable is employed, screw the cable clamp (4) to the enclosure (6); when two multicore cables are employed, use the cable clamp holder (14), then screw cable clamps (15, 16) to the cable clamp holder

- insert the cable into the limit switch through the cable clamp (4, 15, 16)
- strip the multipole cable to a length suitable for stripping the single poles; we suggest the use of pin terminals
- clamp the wire into the cable clamp (4, 15, 16)

- when PRSL0110XX and PRSL0111XX switches are used connect the switches according to the contact scheme printed on the switches or to the wiring scheme on the back of the instructions (tighten the wires into the terminals with a torque equal to 0.5 Nm; (UL (c)UL: use 60°C or 75°C copper (CU) conductors and stiff or flexible wire 14-16 AWG); insertability of wires into the terminals 2x0.5mm<sup>2</sup> 2x1.5 mm<sup>2</sup> 1x2.5 mm<sup>2</sup>) - when PRSL0100XX switches are used connect the terminals according to the contact scheme printed on the label placed on the cam set

- when PRSL0100XX switches are used connect the terminals according to the contact scheme printed on the table placed on the carn set (tighten the wires to the terminals with a torque of 50/60 cNm; insertability of wires into the terminals 0.25/1.5mm<sup>2</sup>)

- adjust the operating point of the cams; for proper adjustment, loosen the central screw (12) of the cam set, adjust the operating point of each single cam by turning its adjusting screw (11) (the numbers on the screws refer to the cams counting from bottom to top of the set), then tighten the central screw (12)

- insert the free end of the no-drop wire (2) into one of the metric screws (1), then tighten the metric screws (1) to close the limit switch; check the proper positioning of the rubber in the cover (5) and tighten the screws (1) with a torque of 80/100 cNm

#### Steps for routine maintenance

- check the proper tightening of the screws (1) of the cover (5)
- check the proper tightening of the switch terminal screws
- check the proper tightening of the central screw (12) holding the cams (11)
- check the wiring conditions (in particular where wires clamp into the terminals)
- if there is an anti-moisture plug, check its conditions
- check the conditions of the rubber fit into the cover (5) and check the tightening of the cable clamp (4, 15, 16) around the cable
- check that the limit switch enclosure (5, 6) is not broken
- check the alignment between the limit switch shaft (8) and the reduction gear shaft
- check that the limit switch is properly fixed

Any change to parts of the limit switch will invalidate the rating plate and identification data of the device, and render the warranty null and void. In case of replacement of any part, use original spare parts only.

TER declines all responsibility for damages caused by the improper use or installation of the equipment.

#### Technical Specifications UL with PRSL0110XX and PRSL0111XX switches

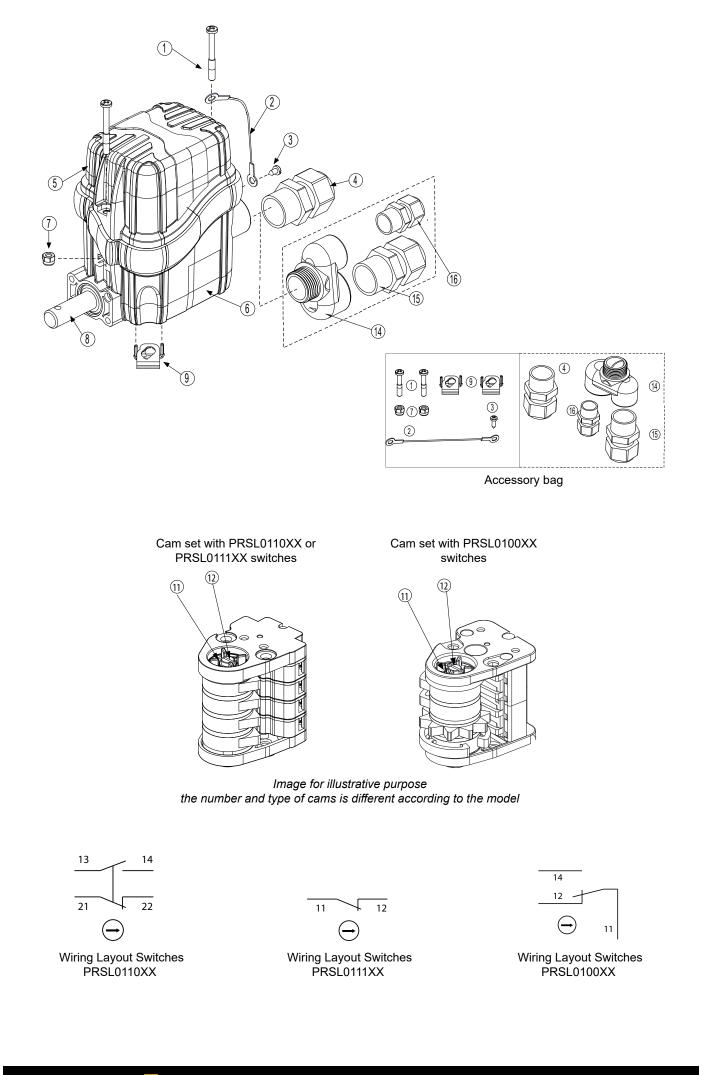
Code Fox certified UL = PFB9U67L XXXX XXX = PFB9U67M XXXX XXX Contact Blocks Rating = A600, Q600 Environmental Rating = Type 1 Cord diameter range = 0.51 in (13mm) Cord type = flexible, type minimum S or SJ (ZJCZ/7) Wire size range = 14-16 AWG stranded or solid Conductors = Copper (CU) 60/75°C Terminal tightening torque = 4.50 lb.in (0.5Nm) Marking = <sup>c</sup> as

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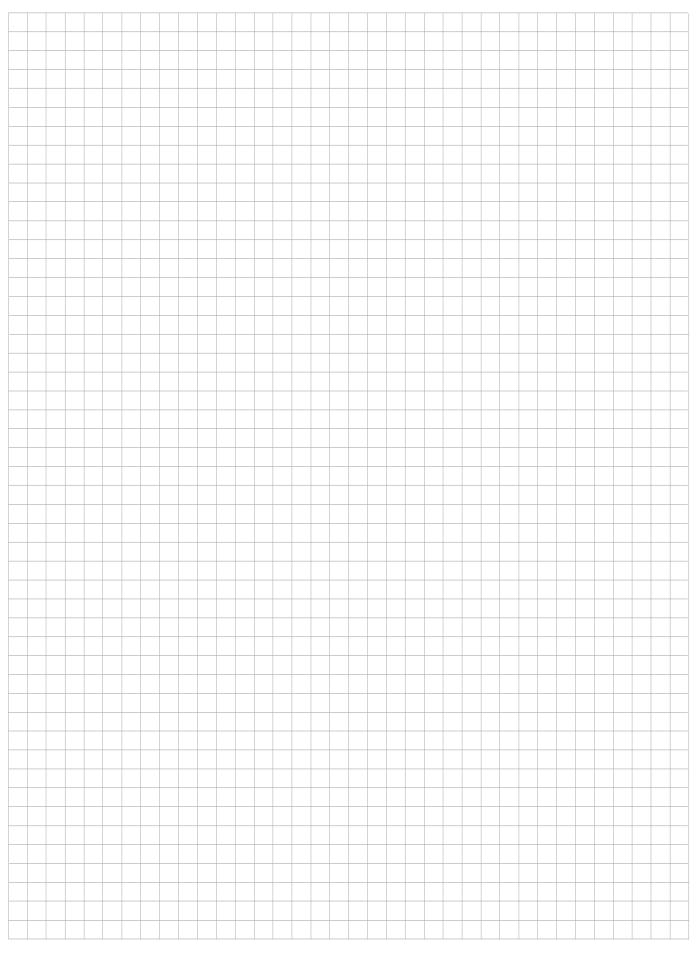
# TER Tecno Elettrica Ravasi srl

Via Garibaldi 29/31 - 23885 Calco (LC) - Italy Registered Office - via San Vigilio 2 - 23887 Olgiate Molgora (LC) - Italy Tel. +39 0399911011 - Fax +39 0399910445 - E-mail: info@terworld.com



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