



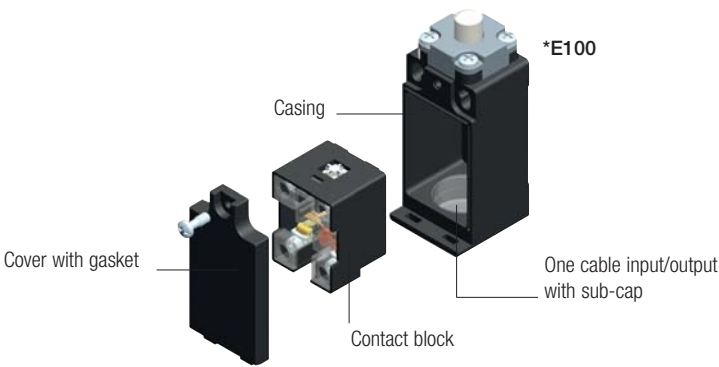
ERSCE

Position
switches

Safety
switches

Overview

The position switches are ERSCE’s main product, and are the result of more than 40 years of experience in industrial automation. They are suitable for use in the most different environmental conditions, thanks to their solid construction, IP66 certified, and proven reliability over decades of fieldwork.



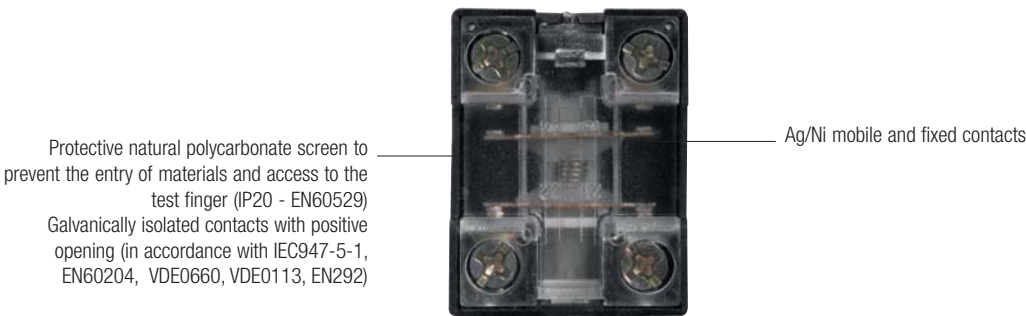
ERSCE position switches are available in 4 different series E100, E200, E300, E400, each characterized by different technical solutions and mounting options. Each series comprises a metal actuator, the casing is available in PA6 thermoplastic reinforced with fiberglass (black RAL 9005) or diecast metal alloy (in this case there is a screw for earthing the switch) painted with baked epoxy powder (gray RAL 7022).

	E100	E200	E300	E400
Thermoplastic	•	•		•
Diecast metal	•		•	•

The standard thread for cable input / output is Pg 13,5. 1/2” NPT and M20 threads are available on request.

Contact blocks

For all series are available contact blocks with two contacts and positive opening of NC contact, snap action (00) or slow action (01). Thanks to the careful design and to the use of the best materials, all ERSCE contact blocks are designed to offer maximum reliability, both electrical and mechanical.



Other contact blocks are available on request (page 139)

Actuators

There are several standard actuators available with direct, angular and multidirectional movement:



A
Steel plunger



B
Steel roller plunger



C
Thermoplastic roller lever, side actuation



D
Thermoplastic roller lever, vertical actuation



E
Side rotary lever with plastic roller



I
Offset side rotary lever with plastic roller



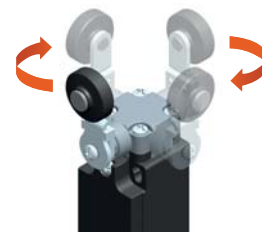
F
Side rotary adjustable lever with plastic roller



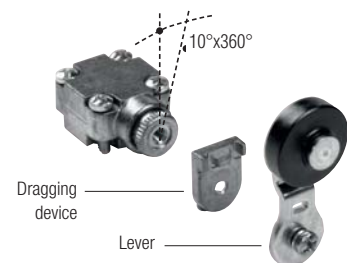
L
Flexible rod

All actuators are made of diecast metal alloy.
Other actuators are available on request.

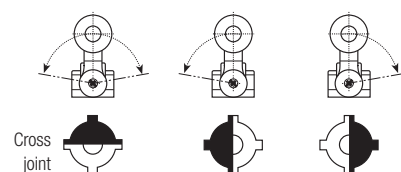
- Maximum versatility:
all actuators are adjustable in steps of 90 °



- Possibility to adjust the lever every 10 °, for 360 °, by moving the lever and the dragging device.
- Possibility to fasten the lever on straight or reverse side, maintaining the positive opening of NC contact.



- The lever can be activated to the left or right only or in both directions by adjusting the cross joint



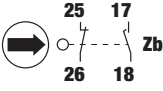
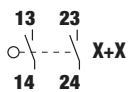
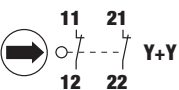
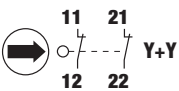
Options on request

Cable input / output

Position switches with thread for cable input / output M20x1,5 and 1/2 NPT are available on request.

Contact blocks

The following contact blocks are available on request:

Overlapping slow action 1NO+1NC	02	
Slow action 2NO	03	
Slow action 2NC	04	
Snap action 2NC	05	

Actuators

Are available on request the following actuators:



A/S1
Steel plunger with
rubber gasket



G
Side rotary
adjustable plastic
glass fiber rod
6mm diameter



C/S1
Thermoplastic roller
lever, with rubber
gasket, side
actuation



H
Side rotary
adjustable
aluminium rod
6mm diameter



D/S1
Thermoplastic
roller lever, with
rubber gasket,
vertical actuation



E/50
Side rotary lever
with rubber roller
50mm diameter



E/RA
Side rotary lever
with steel roller



F/50
Side rotary
adjustable lever
with rubber roller
50mm diameter

All actuators are made of diecast metal alloy.

Technical data

Insulation resistance		500 V DC	MΩ	100
Dielectric strength		50/60 Hz per 1' *	V AC	2500
Rated insulation voltage	Ui	IEC947-5-1	V AC	500
Rated thermal current	Ithe	IEC947-5-1	A	10
Rated operating current		IEC947-5-1/EN60947-5-1		
Category AC15	le	24 V	A	10
A300		125 V	A	6
		230 V	A	6
		400 V	A	3
Category DC13	le	24 V	A	6
Q300		48 V	A	4
		120 V	A	1
		250 V	A	0,4
Contact resistance	IEC255-7 cat.3	initial value	mΩ	25
Short circuit protective devices	IEC269 (IEC947-5-1)			
	gl or gG type fuse		A	10
Rated conditionals short circuit current	IEC947-5-1		A	1000
Pollution degree	IEC947-5-1			3
Protection degree	EN 60529		IP	66
Protection against electric shock		plastic	class	II
		metal	class	I
Vibration resistance	IEC68-2-6	mm		0,35 ± 15% (10 ÷ 55 Hz ± 1 Hz)
Shock resistance	IEC68-2-27	11 ms	g	30
Mechanical life			cycles	15.000.000
Electrical life	a 250 V AC 6A with resistance load cos φ=1		cycles	500.000
	a 250 V AC 6A with resistance load cos φ=0,4		cycles	500.000
Distance between contacts	snap action type		mm	2x1,25
	slow action type		mm	2x2
Terminals	Type			Screw with combined notch and retactable plate (notch Ph. Size 1)
	Screw		M	3,5
	Protection degree		IP	20 A
	Material			Steel class 8,8/ Galvanized
	Max. screw tightening torque	cNm (Kg cm)		120 (12,24)
	Max connecting capacity	rigid cable	mm²	2x1,5
		flexible cable	mm²	2x1,5
	Terminal numbering			In accordance with EN50013

Condition of use

Air ambient temperature	operational	°C	-35 ÷ +85 (without formation of ice)
Relative humidity	operational		95% max

* between terminals of the same polarity: between terminals with different polarity: between live mechanical parts and ground;
between live mechanical parts and non-current-carrying metal parts

Position and safety switches

■ International standards and approvals

Country	Authority	Mark of standard	E100	E200	E300	E400
USA / Canada	UL investigated according to CSA	 1	•	•	•	•
		 1				
Canada	CSA International	 2	•	•	•	•
Germany	Verband Deutscher Elektrotechniker	VDE 0660 3	+	+	+	+
Switzerland	Schweizerischer Elektrotechnischer Verein	 3	+	+	+	+
Denmark	Danmarks Elektriske Materielkontrol	 3	+	+	+	+
Norway	Norges Elektriske Materielkontrol	 3	+	+	+	+
Sweden	Svenska Elektriske Materielkontrollanstalten	 3	+	+	+	+
Finland	Sähtörkustakeskus	 3	+	+	+	+
Austria	Österreichischer Verband für Elektrotechnik	 3	+	+	+	+
Great Britain	British Standards Institution	BS EN 60947 3	+	+	+	+
IEC International electrical Commission		IEC 60947 4	+	+	+	+
Russian Federation	GOST	 4	•	•	•	•

• Approved

+ conforms to requirements

Notes:

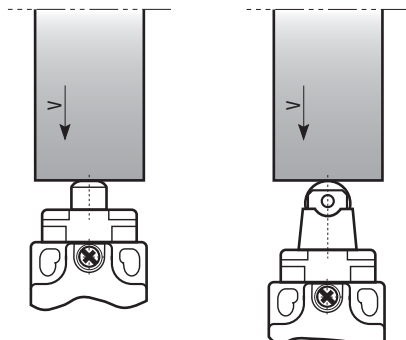
1) UL Approval File E728661

2) CSA Approval File 026716-0-000

3) It is not required to bear a symbol but switches must conform to requirements.

4) IEC does not operate an approval scheme

Operating features



Plunger, Roller plunger, vertical travel

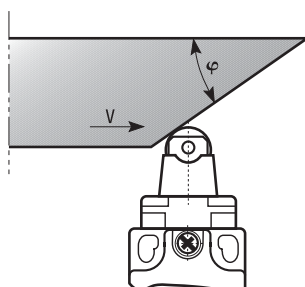
Actuators: A-B

Drive cam operating parameters

	V max (m/s)
Act. A	0,5
Act. B	0,5

Drive forces

Minimum command force	9 N
Minimum forced opening force	28 N



Roller plunger, side travel

Actuator: B

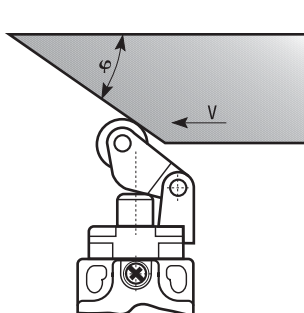
Drive cam operating parameters

φ	V max (m/s)
30°	0,5
20°	1

Drive forces

Minimum command force	9 N
Minimum forced opening force	28 N

Operating features



Roller lever, side travel

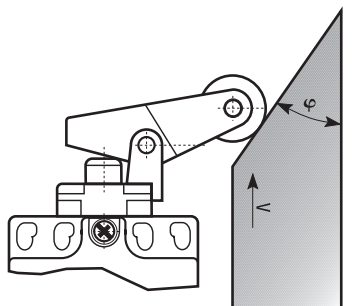
Actuator: C

Drive cam operating parameters

φ	V max (m/s)
30°	0,5
20°	1

Drive forces

Minimum command force	9 N
Minimum forced opening force	26 N



Roller lever, vertical travel

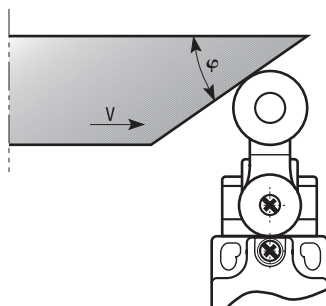
Actuator: D

Drive cam operating parameters

φ	V max (m/s)
30°	0,5
20°	1

Drive forces

Minimum command force	8 N
Minimum forced opening force	26 N



Roller lever

Actuators: E-I-F

Drive cam operating parameters

φ	V max (m/s)
30°	1,5
45°	1
60°	0,75
60°-90°	0,25

Drive forces (E100-E200-E300)

Minimum command force	15 cNm
Minimum forced opening force	35 cNm

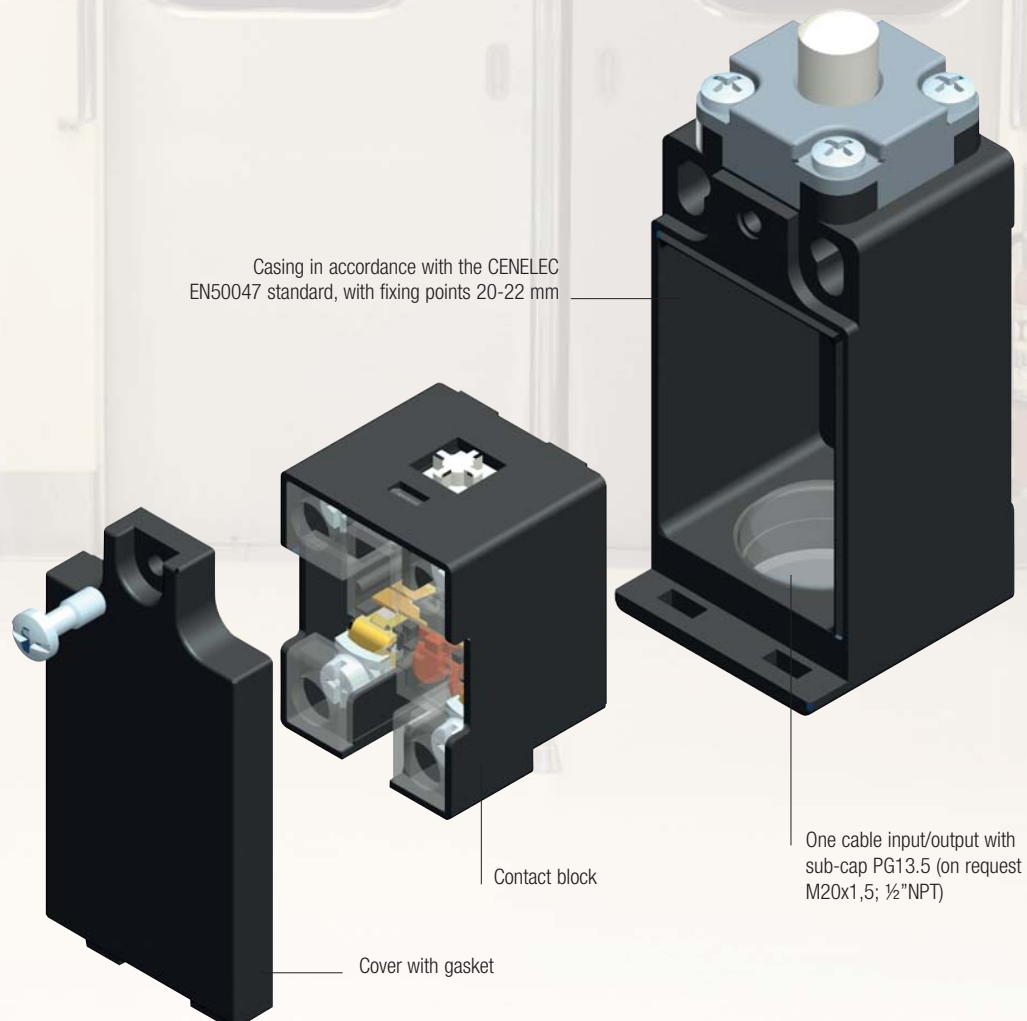
Drive forces (E400)

Minimum command force	25 cNm
Minimum forced opening force	45 cNm



The **E100** series is the most compact of ERSCE position switches. Dimensions are in accordance with CENELEC EN50047 that provides two fixing holes with distance 20 or 22mm. There is one hole for input / output cables on the bottom of the switch. Available with thermoplastic or diecast metal alloy casing.

Casing in accordance with the CENELEC EN50047 standard, with fixing points 20-22 mm



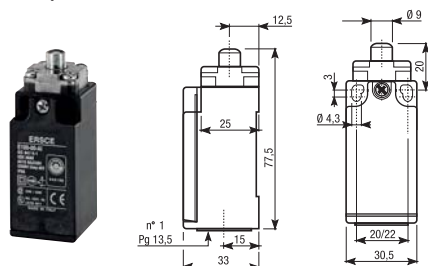
Contact block

Cover with gasket

One cable input/output with sub-cap PG13.5 (on request M20x1,5; ½"NPT)

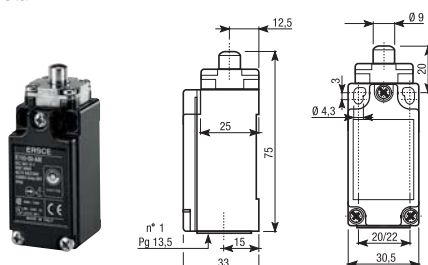
Steel plunger

Thermoplastic



Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
ER800010	E100-00-AI	Snap action 1NO+1NC	00		1
ER800570	E100-01-AI	Slow action 1NO+1NC	01		1

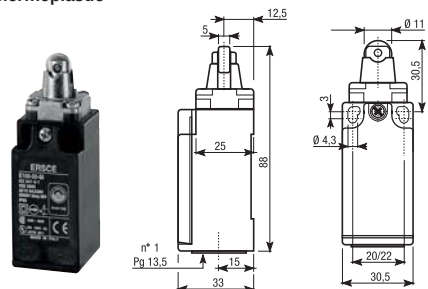
Metal



ER800020	E100-00-AM	Snap action 1NO+1NC	00		1
ER800580	E100-01-AM	Slow action 1NO+1NC	01		1

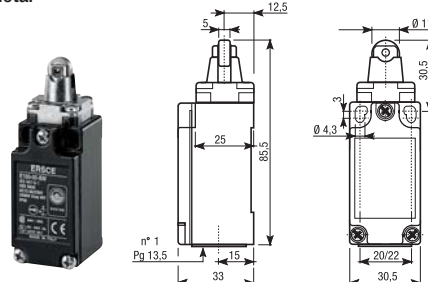
Steel roller plunger

Thermoplastic



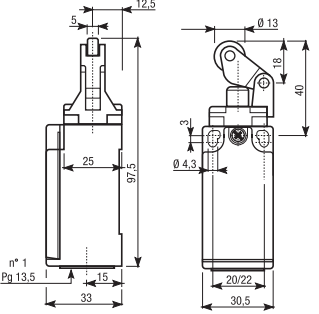
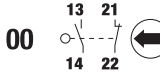
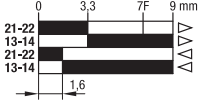
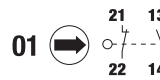
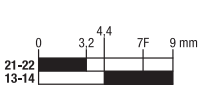
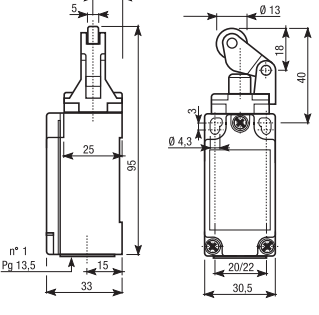
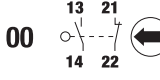
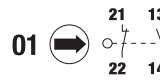
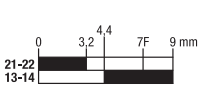
ER800030	E100-00-BI	Snap action 1NO+1NC	00		1
ER800590	E100-01-BI	Slow action 1NO+1NC	01		1

Metal

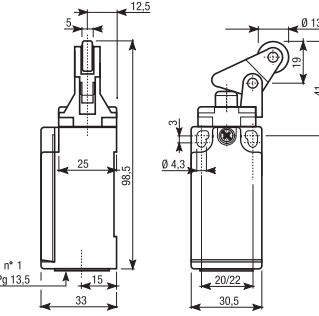
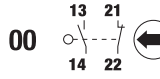
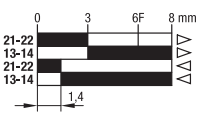
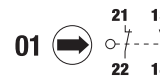
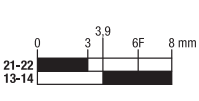
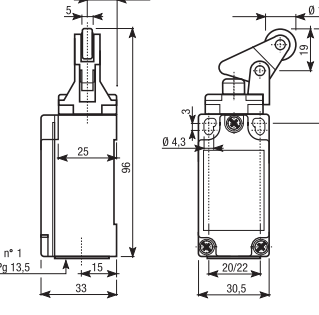
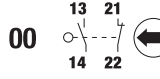
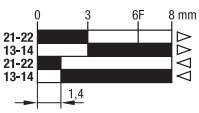
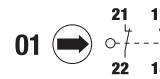
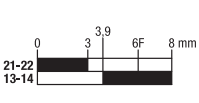


ER800040	E100-00-BM	Snap action 1NO+1NC	00		1
ER800600	E100-01-BM	Slow action 1NO+1NC	01		1

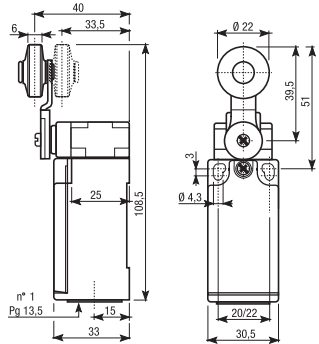
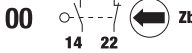
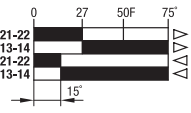
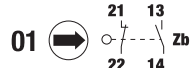
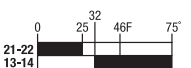
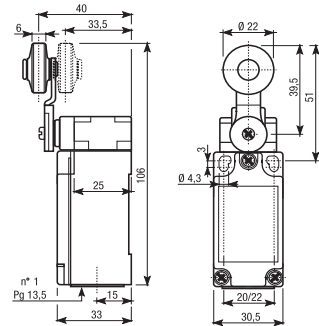
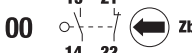
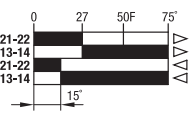
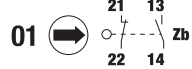
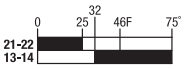
Thermoplastic roller lever, side actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic  	ER800050	E100-00-CI	Snap action 1NO+1NC	00 		1
	ER800610	E100-01-CI	Slow action 1NO+1NC	01 		1
Metal  	ER800060	E100-00-CM	Snap action 1NO+1NC	00 		1
	ER800620	E100-01-CM	Slow action 1NO+1NC	01 		1

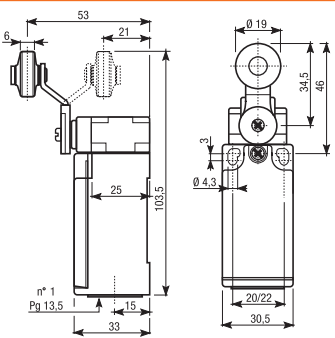
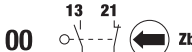
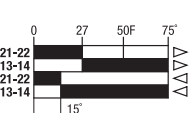
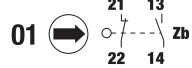
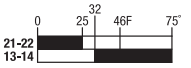
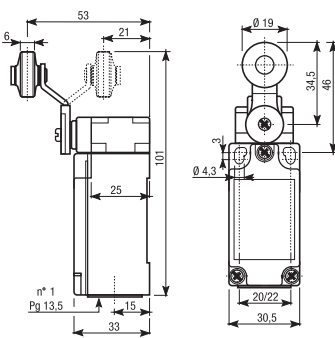
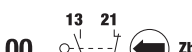
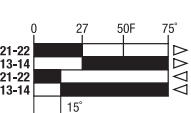
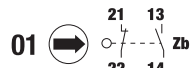
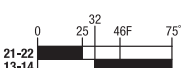
Thermoplastic roller lever, vertical actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic  	ER800070	E100-00-DI	Snap action 1NO+1NC	00 		1
	ER800630	E100-01-DI	Slow action 1NO+1NC	01 		1
Metal  	ER800080	E100-00-DM	Snap action 1NO+1NC	00 		1
	ER800640	E100-01-DM	Slow action 1NO+1NC	01 		1

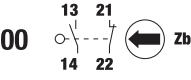
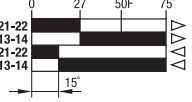
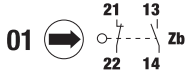
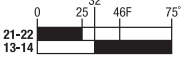
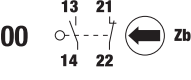
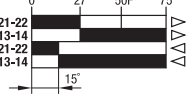
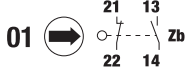
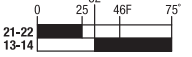
Side rotary lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 		ER800090	E100-00-EI	Snap action 1NO+1NC	 	1
		ER800650	E100-01-EI	Slow action 1NO+1NC	 	1
Metal 		ER800100	E100-00-EM	Snap action 1NO+1NC	 	1
		ER800660	E100-01-EM	Slow action 1NO+1NC	 	1

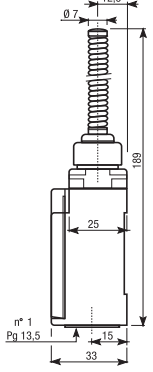
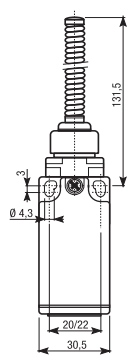
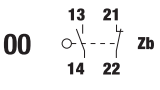
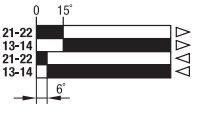
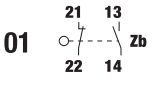
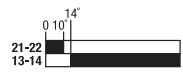
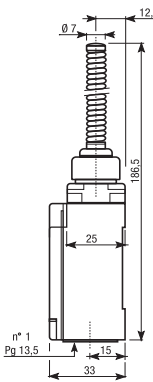
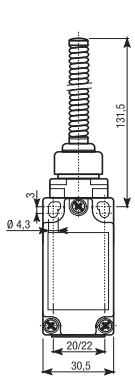
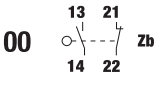
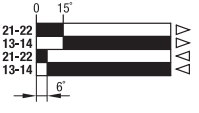
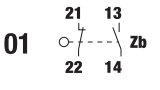
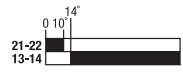
Offset side rotary lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 		ER800170	E100-00-II	Snap action 1NO+1NC	 	1
		ER800730	E100-01-II	Slow action 1NO+1NC	 	1
Metal 		ER800180	E100-00-IM	Snap action 1NO+1NC	 	1
		ER800740	E100-01-IM	Slow action 1NO+1NC	 	1

Side rotary adjustable lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 	ER800110	E100-00-FI	Snap action 1NO+1NC			1
	ER800670	E100-01-FI	Slow action 1NO+1NC			1
Metal 	ER800120	E100-00-FM	Snap action 1NO+1NC			1
	ER800680	E100-01-FM	Slow action 1NO+1NC			1

Flexible rod

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic   	ER800190	E100-00-LI	Snap action 1NO+1NC	00 		1
	ER833000	E100-01-LI	Slow action 1NO+1NC	01 		1
Metal   	ER800200	E100-00-LM	Snap action 1NO+1NC	00 		1
	ER833200	E100-01-LM	Slow action 1NO+1NC	01 		1

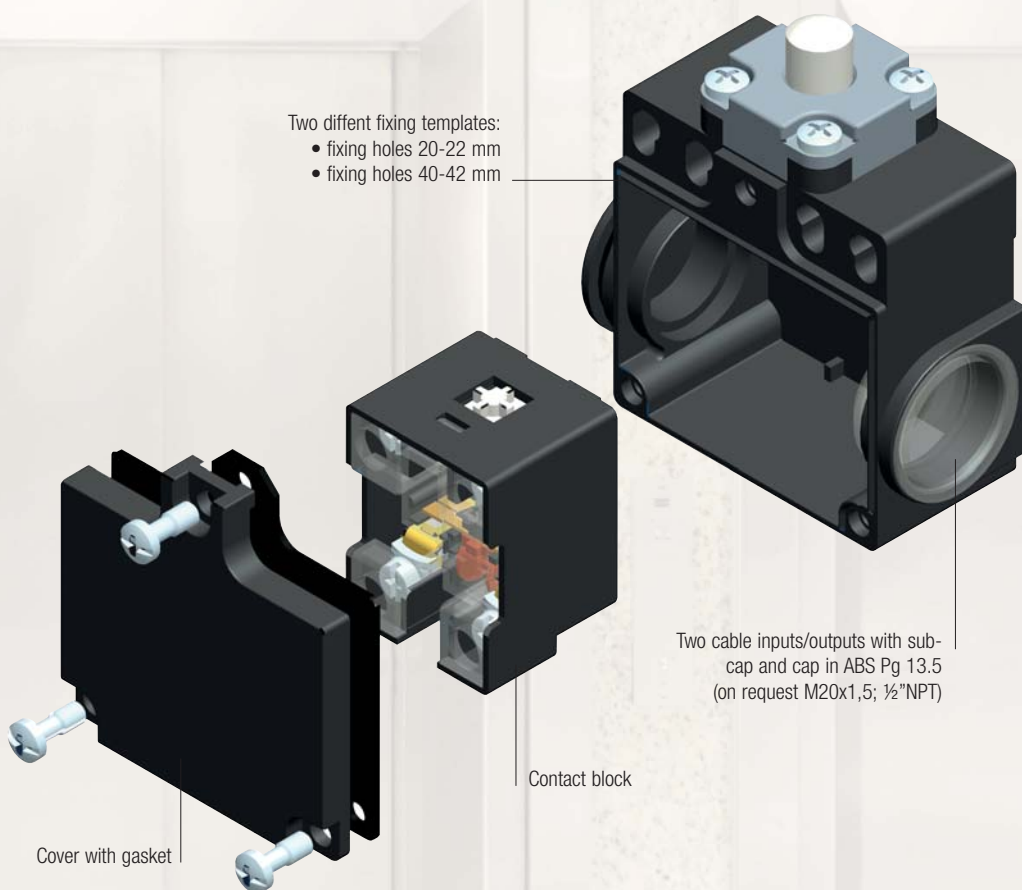


The **E200** series is designed for maximum installation flexibility, it has two different fixing templates to maintain compatibility with both E100 series (fixing holes distance 20-22mm) and E300 series (fixing holes distance 40-42 mm).

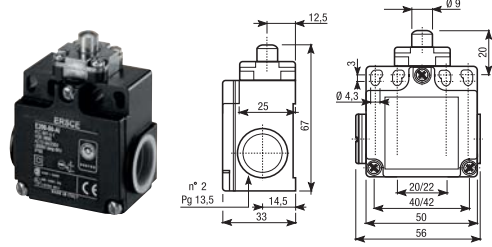
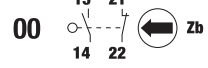
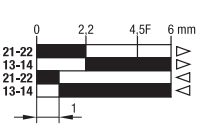
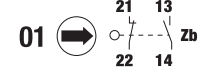
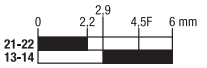
E200 series provides 2 cable inputs / outputs on both sides of the switch and is available with thermoplastic casing only.

Two different fixing templates:

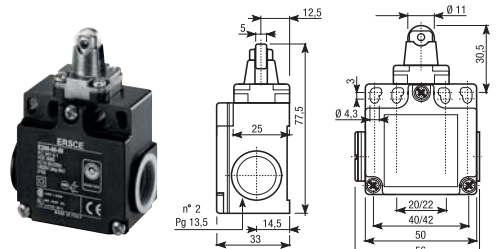
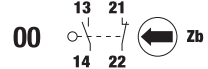
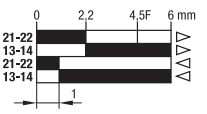
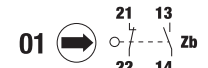
- fixing holes 20-22 mm
- fixing holes 40-42 mm



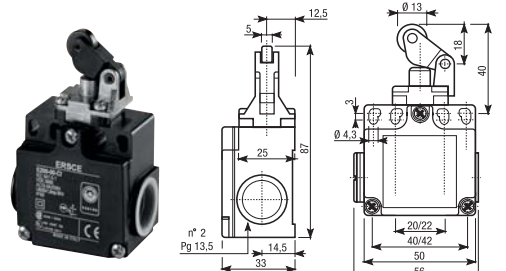
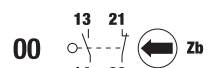
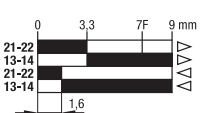
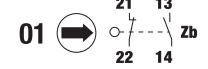
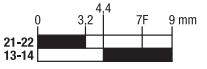
Steel plunger

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER830000	E200-00-AI	Snap action 1NO+1NC			1
	ER830010	E200-01-AI	Slow action 1NO+1NC			1

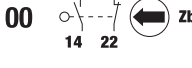
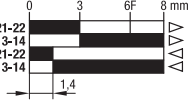
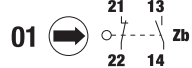
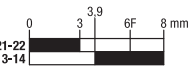
Steel roller plunger

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER830200	E200-00-BI	Snap action 1NO+1NC			1
	ER830210	E200-01-BI	Slow action 1NO+1NC			1

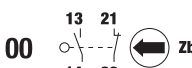
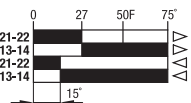
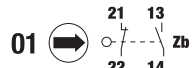
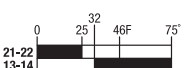
Thermoplastic roller lever, side actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER830300	E200-00-CI	Snap action 1NO+1NC			1
	ER830310	E200-01-CI	Slow action 1NO+1NC			1

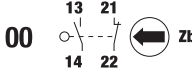
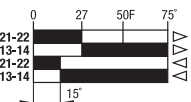
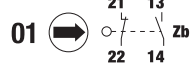
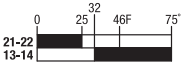
Thermoplastic roller lever, vertical actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER830500	E200-00-DI	Snap action 1NO+1NC			1
	ER830510	E200-01-DI	Slow action 1NO+1NC			1

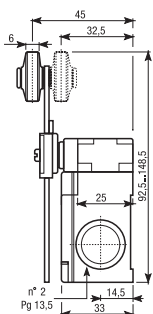
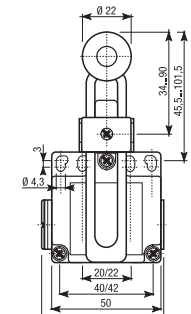
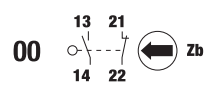
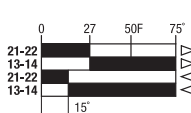
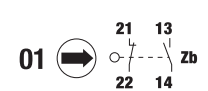
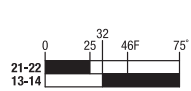
Side rotary lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER830700	E200-00-EI	Snap action 1NO+1NC			1
	ER830710	E200-01-EI	Slow action 1NO+1NC			1

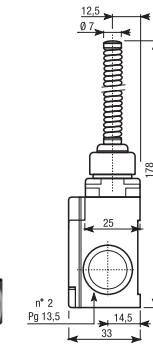
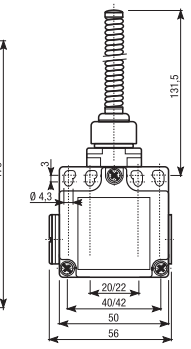
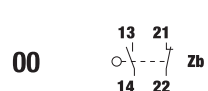
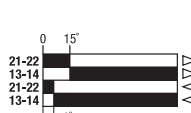
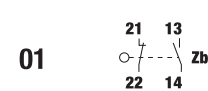
Offset side rotary lever with plastic roller

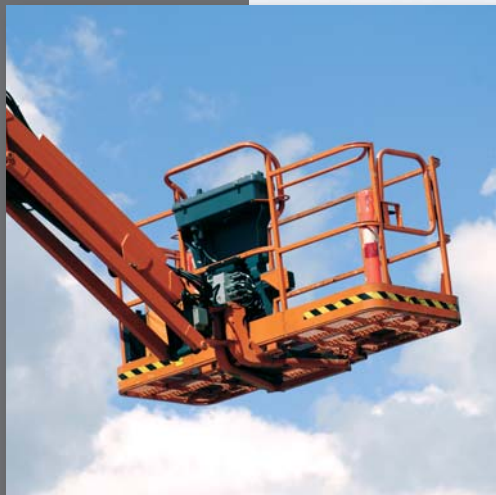
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	ER830800	E200-00-II	Snap action 1NO+1NC			1
	ER830810	E200-01-II	Slow action 1NO+1NC			1

Side rotary adjustable lever with plastic roller

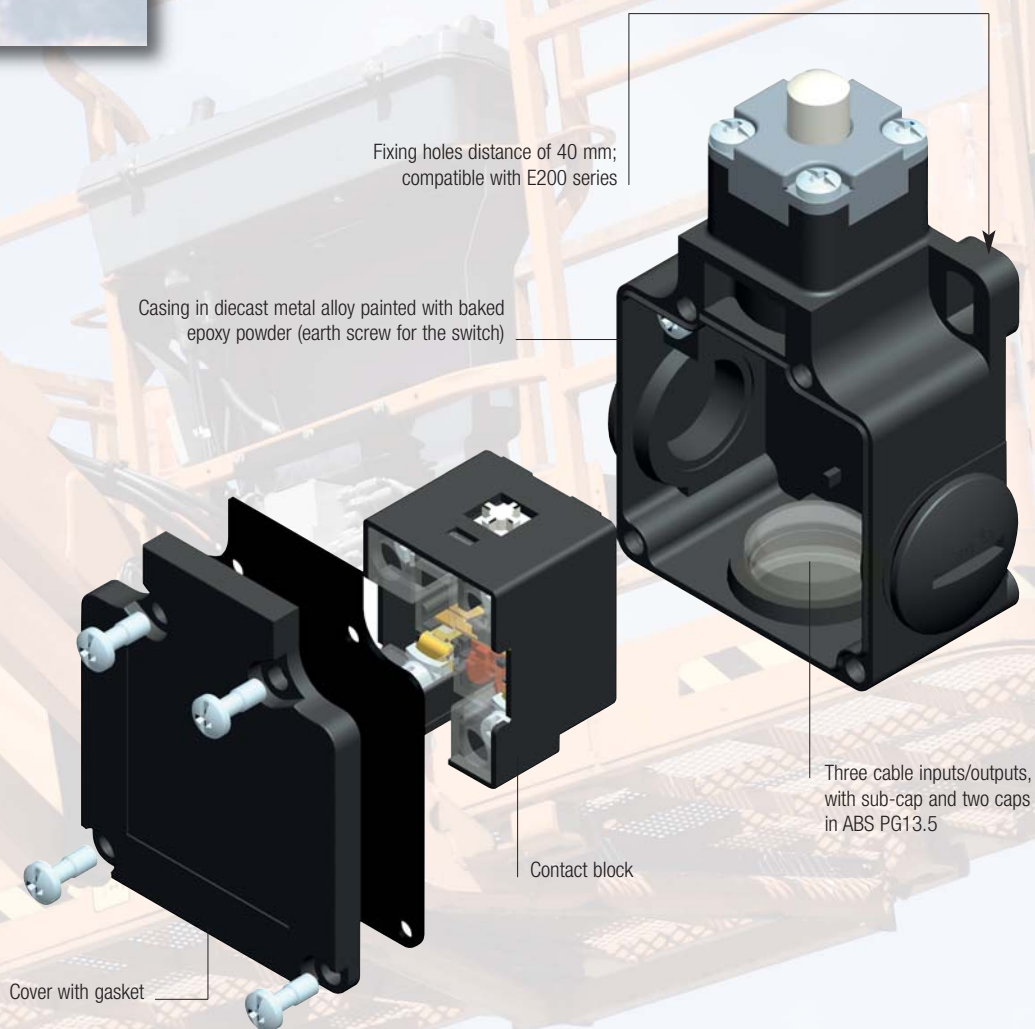
	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
  	ER831100	E200-00-FI	Snap action 1NO+1NC			1
	ER831110	E200-01-FI	Slow action 1NO+1NC			1

Flexible rod

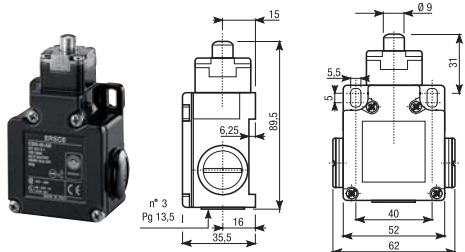
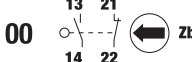
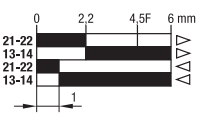
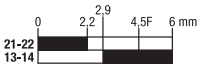
	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
  	ER831500	E200-00-LI	Snap action 1NO+1NC			1
	ER831510	E200-01-LI	Slow action 1NO+1NC			1



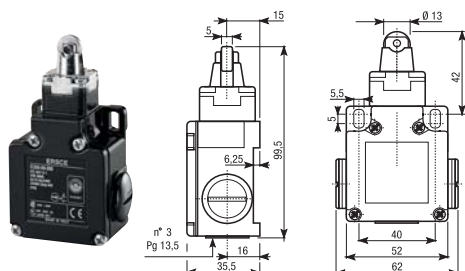
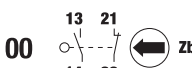
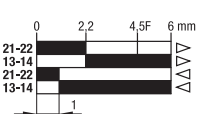
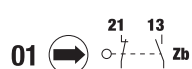
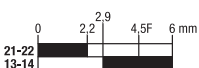
The **E300** series is designed to withstand to the most severe conditions. It has two fixing holes with distance 40mm. Each switch has three cable inputs / outputs, two on each side and one on the bottom, for maximum wiring flexibility. Available with diecast metal alloy casing.



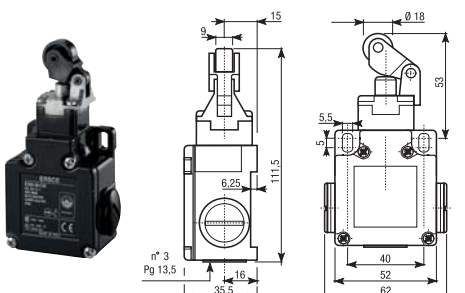
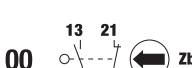
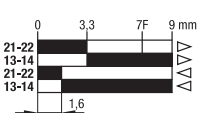
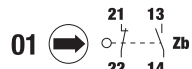
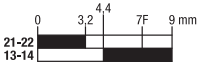
Steel plunger

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER802400	E300-00-AM	Snap action 1NO+1NC			1
	ER802670	E300-01-AM	Slow action 1NO+1NC			1

Steel roller plunger

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER802390	E300-00-BM	Snap action 1NO+1NC			1
	ER802660	E300-01-BM	Slow action 1NO+1NC			1

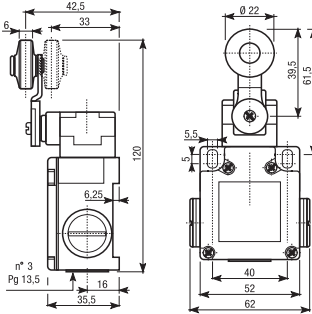
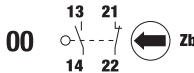
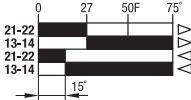
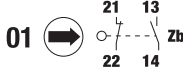
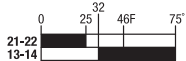
Thermoplastic roller lever, side actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER802380	E300-00-CM	Snap action 1NO+1NC			1
	ER802650	E300-01-CM	Slow action 1NO+1NC			1

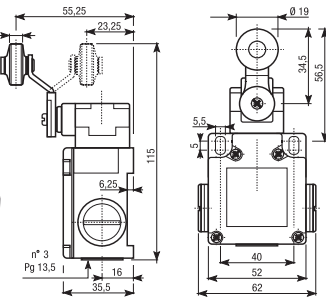
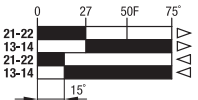
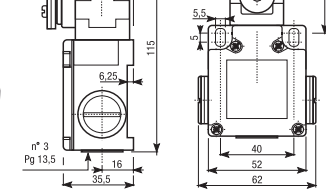
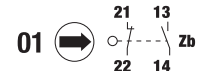
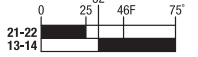
■ Thermoplastic roller lever, vertical actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Photograph of the E300-00-DM relay and its mechanical drawing. Dimensions include: 9, 111, 6.25, 16, 35.5, 5, 5.5, 40, 52, 62, 15, 11, 29.5, 18, and 13.5.	ER802370	E300-00-DM	Snap action 1NO+1NC			1
	ER802640	E300-01-DM	Slow action 1NO+1NC			1

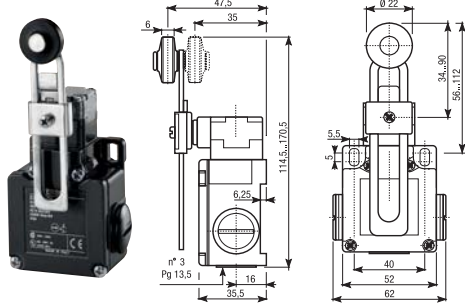
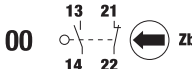
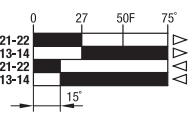
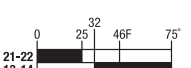
- Side rotary lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
 	ER802360	E300-00-EM	Snap action 1NO+1NC			1
	ER802630	E300-01-EM	Slow action 1NO+1NC			1

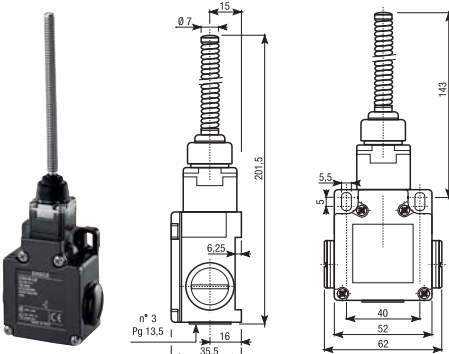
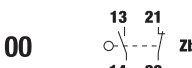
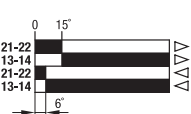
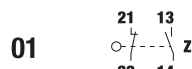
- Offset side rotary lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
 	ER802320	E300-00-IM	Snap action 1NO+1NC			1
 	ER802590	E300-01-IM	Slow action 1NO+1NC			1

Side rotary adjustable lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER802350	E300-00-FM	Snap action 1NO+1NC			1
	ER802620	E300-01-FM	Slow action 1NO+1NC			1

Flexible rod

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER802310	E300-00-LM	Snap action 1NO+1NC			1
	ER833600	E300-01-LM	Slow action 1NO+1NC			1



The **E400** series is the most robust of ERSCE position switches. Dimensions are in accordance with CENELEC EN 50041, two fixing holes with distance 30 mm. It is also equipped with one hole for cable input / output on the bottom of the switch. Available with thermoplastic or diecast metal alloy casing.



Four fixing points, two with slot to achieve a precise positioning

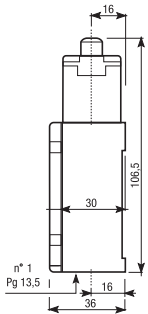
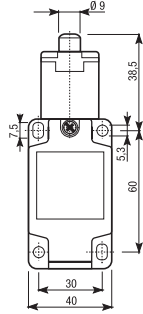
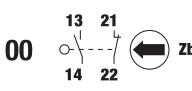
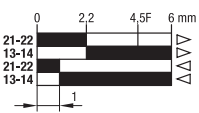
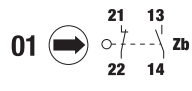
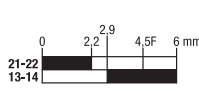
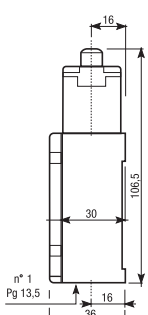
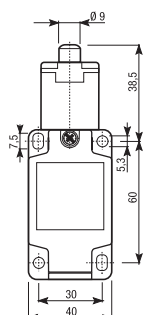
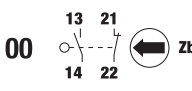
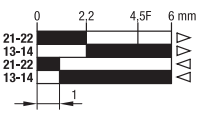
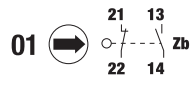
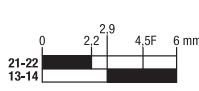
Casing in accordance with the CENELEC EN50041 standard, with fixing holes distance of 30 mm

Contact block

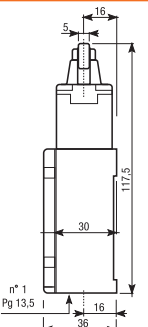
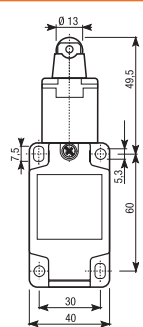
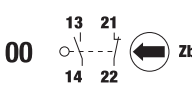
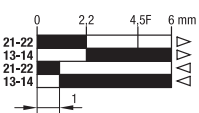
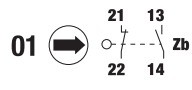
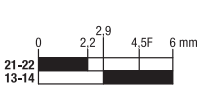
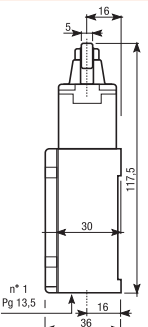
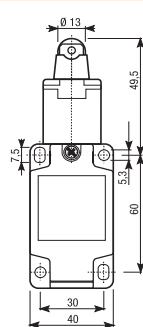
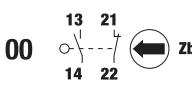
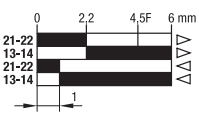
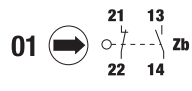
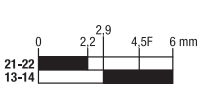
Cover with gasket

One cable input/output with sub-cap Pg 13.5 (M20x1,5; ½"NPT)

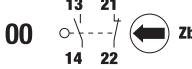
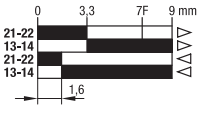
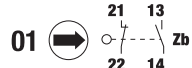
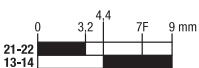
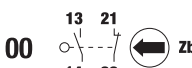
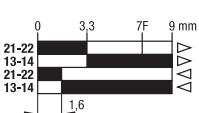
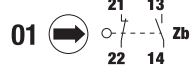
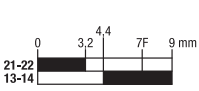
Steel plunger

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic   	ER817000	E400-00-AI	Snap action 1NO+1NC	00 		1
	ER817200	E400-01-AI	Slow action 1NO+1NC	01 		1
Metal   	ER803200	E400-00-AM	Snap action 1NO+1NC	00 		1
	ER803470	E400-01-AM	Slow action 1NO+1NC	01 		1

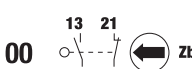
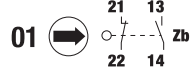
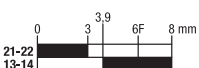
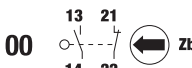
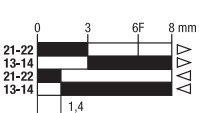
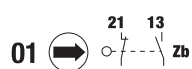
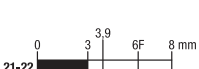
Steel roller plunger

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic   	ER817010	E400-00-BI	Snap action 1NO+1NC	00 		1
	ER817110	E400-01-BI	Slow action 1NO+1NC	01 		1
Metal   	ER803190	E400-00-BM	Snap action 1NO+1NC	00 		1
	ER803460	E400-01-BM	Slow action 1NO+1NC	01 		1

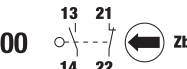
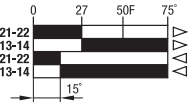
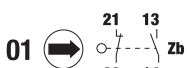
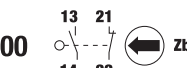
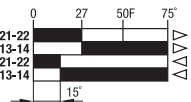
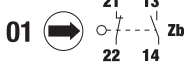
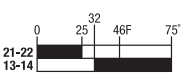
Thermoplastic roller lever, side actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 	ER817020	E400-00-CI	Snap action 1NO+1NC	00 		1
	ER817400	E400-01-CI	Slow action 1NO+1NC	01 		1
Metal 	ER803180	E400-00-CM	Snap action 1NO+1NC	00 		1
	ER803450	E400-01-CM	Slow action 1NO+1NC	01 		1

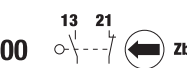
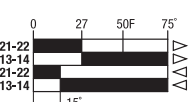
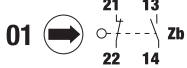
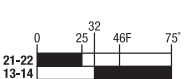
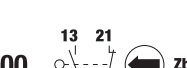
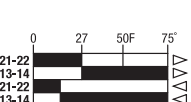
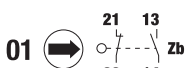
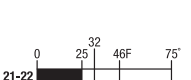
Thermoplastic roller lever, vertical actuation

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 	ER817030	E400-00-DI	Snap action 1NO+1NC	00 		1
	ER817900	E400-01-DI	Slow action 1NO+1NC	01 		1
Metal 	ER803170	E400-00-DM	Snap action 1NO+1NC	00 		1
	ER803440	E400-01-DM	Slow action 1NO+1NC	01 		1

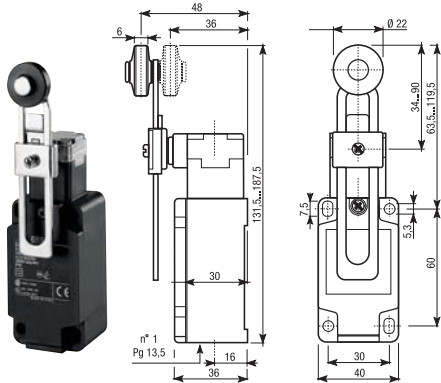
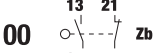
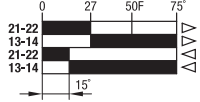
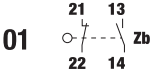
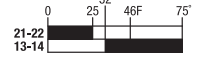
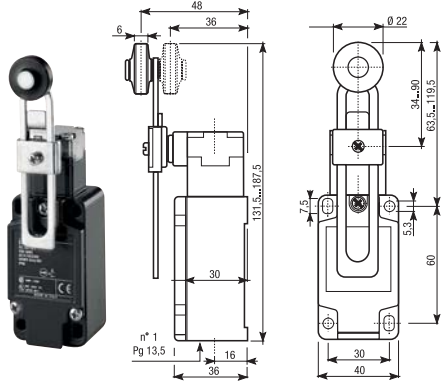
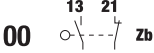
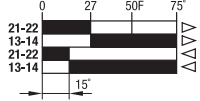
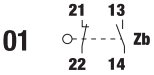
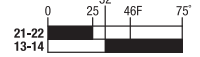
Side rotary lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 	ER817040	E400-00-EI	Snap action 1NO+1NC	00 		1
	ER818200	E400-01-EI	Slow action 1NO+1NC	01 		1
Metal 	ER803160	E400-00-EM	Snap action 1NO+1NC	00 		1
	ER803430	E400-01-EM	Slow action 1NO+1NC	01 		1

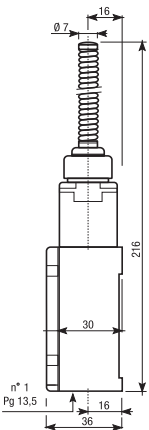
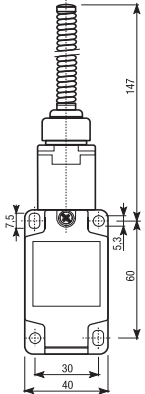
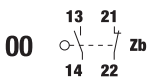
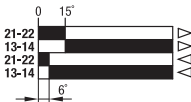
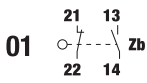
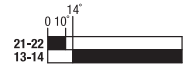
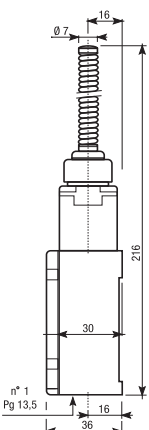
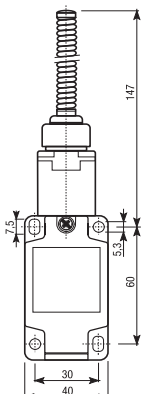
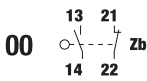
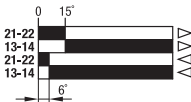
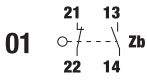
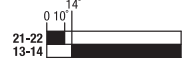
Offset side rotary lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 	ER817080	E400-00-II	Snap action 1NO+1NC	00 		1
	ER818300	E400-01-II	Slow action 1NO+1NC	01 		1
Metal 	ER803120	E400-00-IM	Snap action 1NO+1NC	00 		1
	ER803390	E400-01-IM	Slow action 1NO+1NC	01 		1

Side rotary adjustable lever with plastic roller

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic 	ER817050	E400-00-FI	Snap action 1NO+1NC	00 		1
	ER817150	E400-01-FI	Slow action 1NO+1NC	01 		1
Metal 	ER803150	E400-00-FM	Snap action 1NO+1NC	00 		1
	ER803420	E400-01-FM	Slow action 1NO+1NC	01 		1

Flexible rod

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
Thermoplastic   	ER817090	E400-00-LI	Snap action 1NO+1NC	00 		1
	ER819000	E400-01-LI	Slow action 1NO+1NC	01 		1
Metal   	ER803110	E400-00-LM	Snap action 1NO+1NC	00 		1
	ER833800	E400-01-LM	Slow action 1NO+1NC	01 		1



Key actuated safety switches

- PA6 thermoplastic actuator, reinforced with fiberglass, color black (RAL 9005)
- Head can be rotated at 90° steps.
- Fixing holes distance 20-22mm
- Type Z5 key included
- Adjustable key Z5-2 available as an accessory
- IP66 protection degree



Pull-wire safety switches

- Diecast metal alloy actuator
- Casing in PA6 thermoplastic reinforced with fiberglass, or diecast metal alloy painted (grey RAL 7022) with baked epoxy powder (earth screw for the switch)
- Manufactured according to EN ISO 13850
- Fixing holes distance 20-22mm for E100 or 30mm for E400
- IP66 protection degree



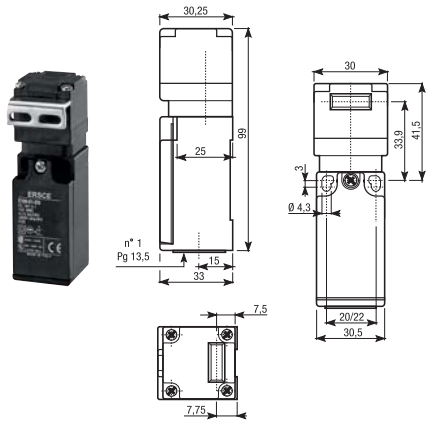
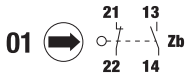
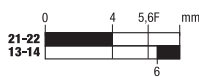
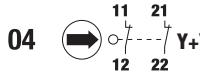
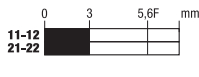
Hinge safety switches

- Actuator with female metal shaft, lenght 24,5mm (ø 12mm)
- Fixing holes distance 20-22mm
- One cable input/output with sub-cap
- Supplied with one screw and a plug for shaft connection
- IP66 protection degree

Key actuated series - Pull wire series

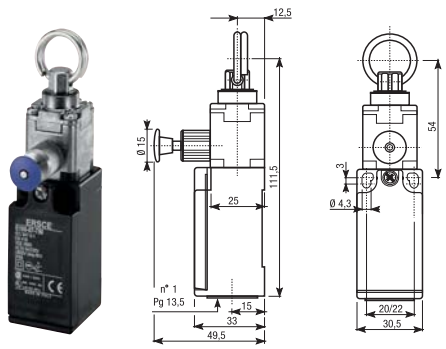
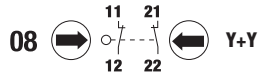
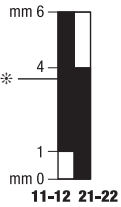
Key actuated series

E100 5 way with "Z5" key

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER840010	E100-01-S5I	Slow action 1NO+1NC			1
	ER840020	E100-04-S5I	Slow action 2NC			1

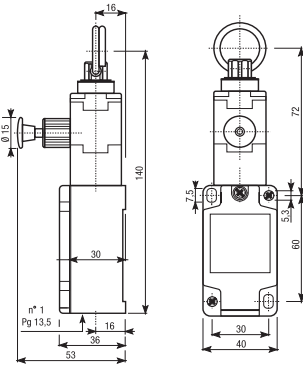
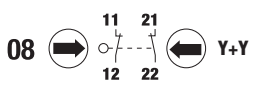
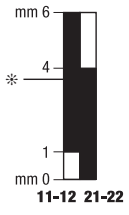
Pull wire series

E100 with EN418 block reset

	Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
	ER809720	E100-08-TBI	Slow action 1NO+1NC *stretch the cable untill the contact (2NC) close			1

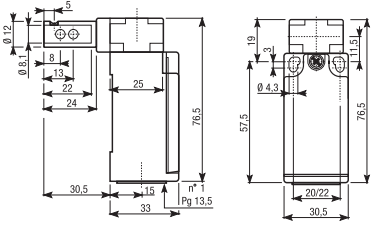
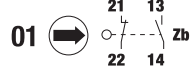
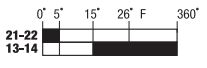
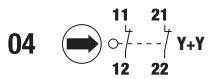
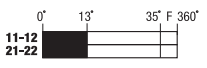
Pull wire series

E400 with EN418 block reset

Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
 	ER809780	E400-08-TBM	Slow action 1NO+1NC *stretch the cable untill the contact (2NC) close	 	1

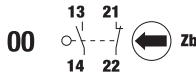
Hinge series

Female metal shaft

Part no.	Type	Contact block	Circuit diagram	Contact travel	Pack.
 	ER820010	E100-01-SCI	Slow action 1NO+1NC	 	1
	ER820020	E100-04-SCI	Slow action 1NO+1NC	 	1

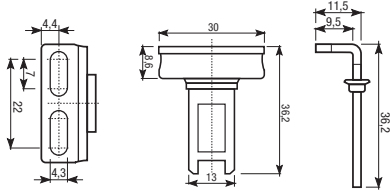
Position switch accessories

■ Contact blocks

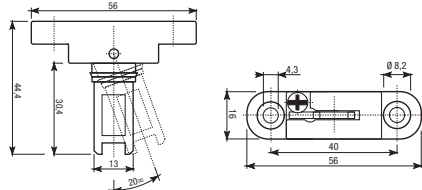
	Part no.	Type	Contact block	Circuit diagram	Pack
	ER899000	00	Contact block, snap action 1NO + 1NC		20
	ER899010	01	Contact block, slow action 1NO + 1NC		20

Key actuated switch accessories

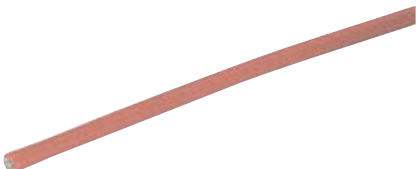
■ 5 way - command key mod. Z5

	Part no.	Type	Contact block	Pack.
 	ER840130	Z5	90° Key	10

■ 5 way - Adjustable command key mod. Z5-2

	Part no.	Type	Contact block	Pack.
 	ER840150	Z5-2	Adjustable key	10

Pull wire switch accessories

	Part no.	Type	Description	Pack.
	ER844600	M05	Clamp for Ø 5mm - DIN 1480	10
	ER844610	R05	Wire rope thimble, shape A, for rope Ø 5mm - DIN 6899	10
	ER844620	T05	Wrought iron tension screw M6 x 60	10
	ER844630	O05	M8 eyelet with thread	10
	ER844640	F05	Ø 5mm red safety cable Lenght = 50m	1