



**ERSCE**

**E700-0-EM**

IEC 947-5-1  
VDE 0660  
AC15 3A/230V  
U<sub>i</sub>400V U<sub>imp</sub> 4KV  
IP67



A300 / Q300



MADE IN ITALY

**ERSCE**

**E600-0-AM**

IEC 947-5-1  
VDE 0660  
AC15 3A/230V  
U<sub>i</sub>400V U<sub>imp</sub> 4KV  
IP67



A300 / Q300



MADE IN ITALY

**ERSCE**

Pre-wired  
position  
switches

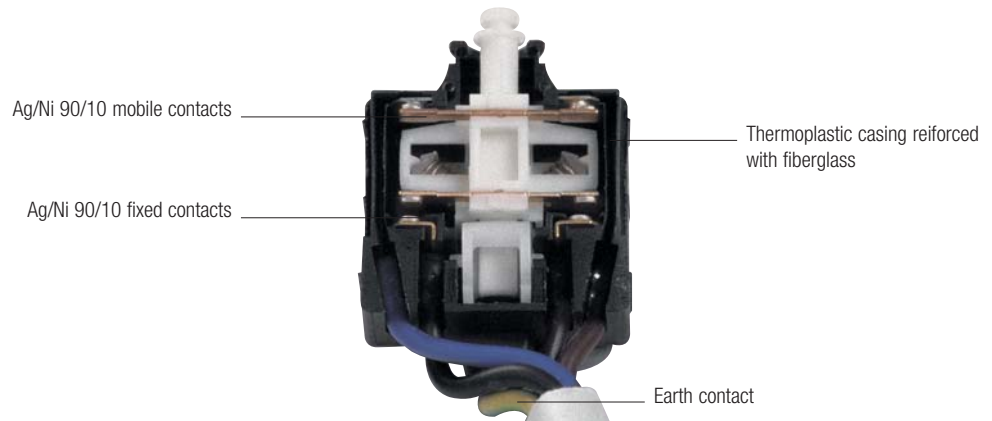
## Overview

The **E700-E600** series pre-wired position switches offer the same characteristics of reliability, accuracy and robustness of the other ERSCE switches in compact size.

Thanks to their reduced dimensions, the precision of their actuators, the practical mounting system and the high protection against the introduction of liquids and powders (IP67), these devices are suitable for use on machines where space is restricted and working environment is difficult.

**E700** and **E600** series are equipped with 4 terminals double-break contact blocks, with galvanically separated moving contacts.

The drives are by snap action, 1NO + 1NC with positive opening of NC contact.



## Actuators

The actuators of prewired position switches are characterized by high precision and high mechanical life. The following executions are available:



**A**  
Steel plunger



**B**  
Steel roller plunger



**BL\***  
Steel plunger with  
rubber gasket

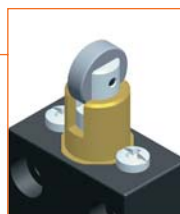
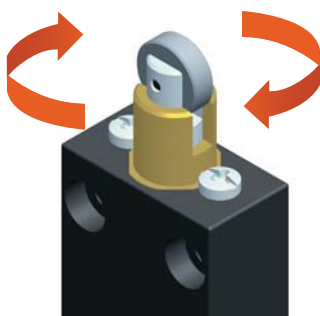


**E**  
Side rotary lever  
with plastic roller

*\*available only for E700 Series*

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

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For B-BL drives is possible  
to rotate the head by 90 °

## Technical data

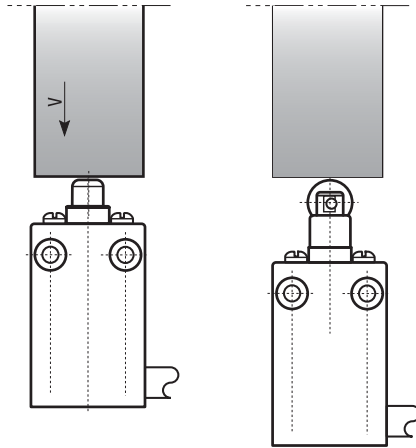
Insulation resistance		500 V DC	mΩ	100
Dielectric strength		50/60 Hz per 1' *	V AC	2500
Rated insulation voltage	Ui	IEC947-5-1	V AC	500
Rated thermal current	Ithe	IEC947-5-1	A	10
Rated operating current		IEC947-5-1/EN60947-5-1		
Category AC15 A300	le	24 V	A	6
		125 V	A	5
		230 V	A	3
		400 V	A	1,8
Category DC13 Q300	le	24 V	A	3
		48 V	A	1,5
		120 V	A	0,55
		250 V	A	0,27
Contact resistance (without cable)	IEC255-7 cat.3	initial value	mΩ	25
Short circuit protective devices	IEC269 (IEC947-5-1)	gl or gG type fuse	A	6
Rated conditionals short circuit current	IEC947-5-1		A	1000
Pollution degree	IEC947-5-1			3
Protection degree	EN 60529		IP	67
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	10.000.000
Electrical life	a 250 V AC 3A with resistance load cos φ=1		cycles	500.000
	a 250 V AC 3A with resistance load cos φ=0,4		cycles	500.000
Distance between contacts	Snap action type		mm	2x2
	Slow action type		mm	2x1,25
Cable	Model/Section		mm <sup>2</sup>	V4 o 5F - 4 o 5x0,75 (19 AWG)
	Colors			brown-blue(NO); black -grey(NC); yellow/green(GND)
	Sheath color			Grey RAL 7035
	Length **		m	2
	Traslation speed		m/mim	60
	Operating voltage		V	300/500

## Ambient conditions

Air ambient temperature	operational	°C	-35 ÷ +85 (without formation of ice)
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\* 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.

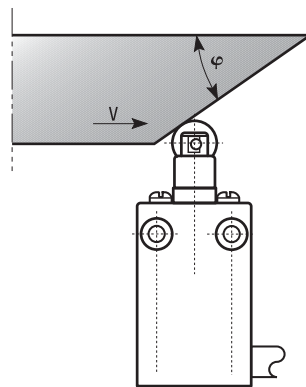
## Operating features



### Plunger, Roller plunger, vertical travel

Actuators: A-B-BL

Drive cam operating parameters	
V max (m/s)	0,5

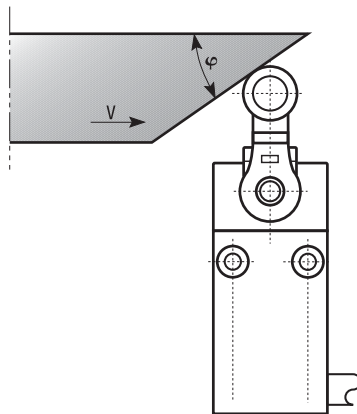


### Roller plunger, side travel

Actuators: B-BL

Drive cam operating parameters	
$\varphi$	V max (m/s)
30°	0,1
20°	0,3

Drive forces	
Minimum command force	8 N
Minimum forced opening force	18 N



### Roller lever

Actuator: E

Drive cam operating parameters	
$\varphi$	V max (m/s)
30°	1,5
45°	1
60°	0,75
60°-90°	0,25

Drive forces	
Minimum command force	4 cNm
Minimum forced opening force	8 cNm

## E700 Series - E600 Series



The **E700** series is available with PA6 thermoplastic casing reinforced with fiberglass (black RAL 9005) or diecast metal alloy painted with baked epoxy powder (gray RAL 7022). The switches have a cable outlet and are provided with 5 poles cable with PVC sheath, length 2 meters. The distance between mounting holes is 20 mm.



The **E600** Series is provided with diecast metal alloy casing painted with baked epoxy powder (RAL 7022). The distance between the mounting holes is 25mm. The switches have a cable outlet on the bottom and are equipped with 5 poles cable with PVC sheath, length 2 meters.

## Steel plunger

	Part no.	Contact block	Circuit diagram	Contact travel	Pack
Thermoplastic	E7000AI	Snap action 1NC+1NO			1
Metal	E7000AM	Snap action 1NO+1NC			1

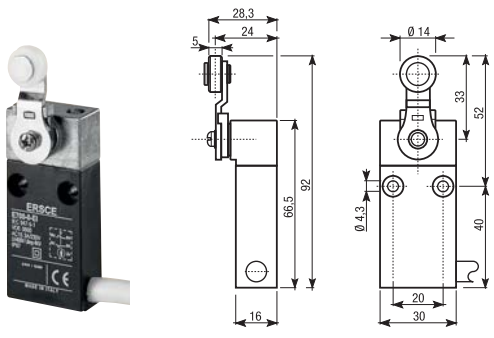
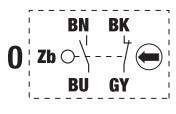
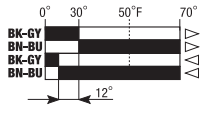
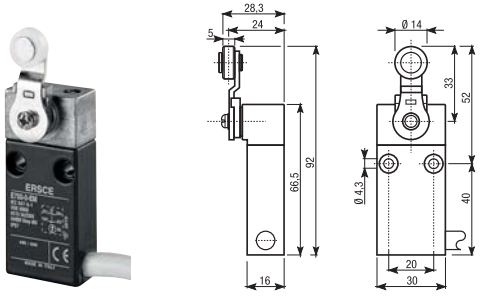
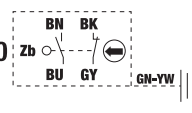
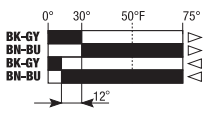
## Steel roller plunger

	Part no.	Contact block	Circuit diagram	Contact travel	Pack
Thermoplastic	E7000BI	Snap action 1NO+1NC			1
Metal	E7000BM	Snap action 1NO+1NC			1


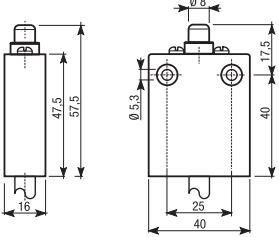
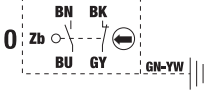
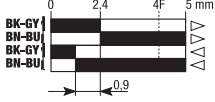
**Steel roller plunger**

	Part no.	Contact block	Circuit diagram	Contact travel	Pack
Thermoplastic	E7000BLI	Snap action 1NO+1NC			1
Metal	E7000BLM	Snap action 1NO+1NC			1


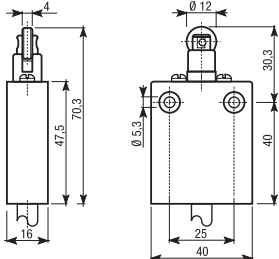
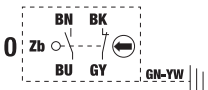
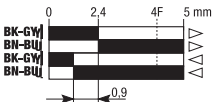
Side rotary lever with plastic roller

	Part no.	Contact block	Circuit diagram	Contact travel	Pack
<p><b>Thermoplastic</b></p> 	E7000EI	Snap action 1NO+1NC			1
<p><b>Metal</b></p> 	E7000EM	Snap action 1NO+1NC			1


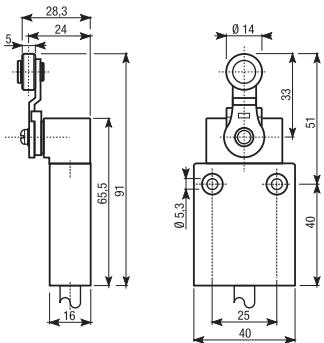
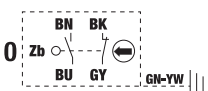
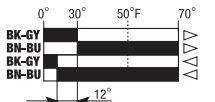
■ **Steel plunger**

	Part no.	Contact block	Circuit diagram	Contact travel	Pack
 	E6000AM	Snap action 1NO+1NC			1

■ **Steel roller plunger**

	Part no.	Contact block	Circuit diagram	Contact travel	Pack
 	E6000BM	Snap action 1NO+1NC			1

■ **Side rotary lever with plastic roller**

	Part no.	Contact block	Circuit diagram	Contact travel	Pack
 	E6000EM	Snap action 1NO+1NC			1