

24CE/924CE

Miniature Safety Electromechanical Switch

FEATURES

- Positive opening operation of Normally Closed contacts conforming to IEC/EN 60947-5-1-3
- Compact construction
- Pre-wired
- Die-cast Zinc housing
- Wide selection of actuators
- Cable length variations
- Side and bottom exit cable
- Simple two-screw mounting
- IP 65/66/67
- UL recognised; CSA certified (924CE), CE compliant, BG approved (24CE)

BENEFITS

- Suitable for applications where space is at a premium
- Fast and easy to install
- Suitable for difficult operating environments
- Application flexibility
- Enhanced choice for application
- Multiple plunger capability



(924CE Series Only)



(24CE Series Only)



The ranges 24CE and 924CE have been tested and approved to meet the requirements of the Low Voltage directive and positive opening safety contacts per IEC/EN 60947-5-1-3. The devices are CE marked. The red colour clearly differentiates this safety component in the application. The 924CE range also has UL and CSA approval.

It is possible for the end user to enhance the safety level of these switches from Category 1 per EN 954-1 on their own to Categories 2, 3 or 4 per EN 954-1 when the switches are used in conjunction with our wide range of FF-SR safety control modules to form a safety system.

Typical applications for these switches would use the roller plunger 24CE18 style in conjunction with cams on doors with hinges. Also available are a range of panel mounting or top mounting versions to ensure that small space or difficult mounting can be simply achieved.

Several contact arrangements are available.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalogue) is for reference only. DO NOT USE this document as system installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

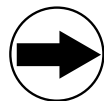
Failure to comply with these instructions could result in death or serious injury.

24CE Series

Miniature Safety

Electromechanical

Switch

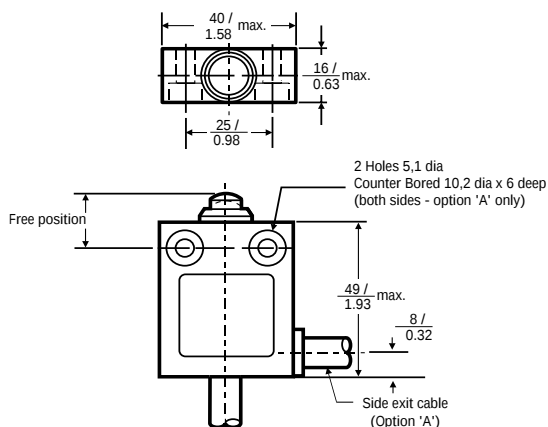


Technical Data

Mechanical life	10 million operations.
Degree of protection	24CE Standard type: IP 66 With boot seal type: IP 67
Temperature range	<i>Operating:</i> 0 °C to +70 °C / 32 °F to +160 °F
Approvals*	IEC 60947-5-1 EN 60947-5-1 ac15 B300 dc13 R300
Electrical	According to IEC/EN 60947-5-1. Rated insulation voltage $U_i = 500$ V. Rated impulse withstand voltage $U_{imp} = 2,5$ kV. Not suitable for isolation. SCPD, Quick blow fuse to IEC 127 suitable for rated current.

* See Standards (page 179)

Dimensions in mm / in



Cable Type
3 or 5 x 0,75 mm² harmonised CENELEC cable.

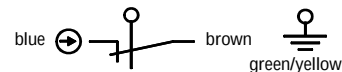
Ordering:

24CE

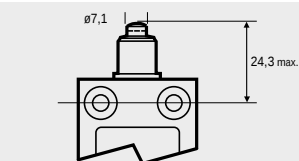
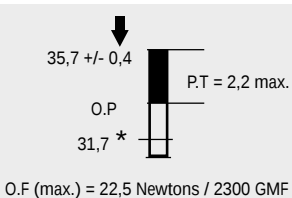
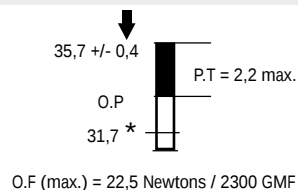
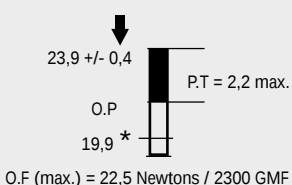
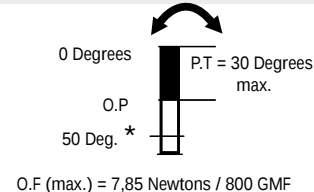
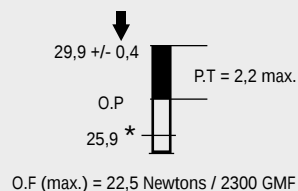
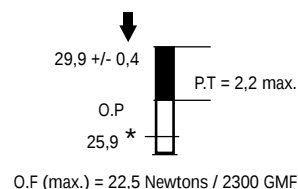
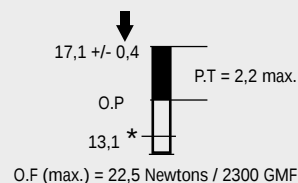
Example: 24CE18-Y1A

Actuator Types

Slow Action Contacts 1 Normally Closed

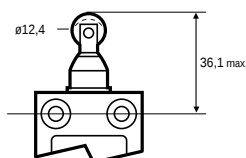


■ Circuit closed
* Positive opening to IEC/EN 60947-5-1-3



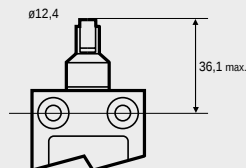
Pin Plunger (Boot Sealed)

18



Roller Plunger Parallel (Boot Sealed)

31

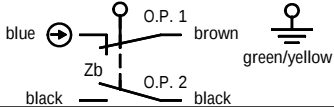
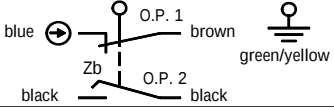
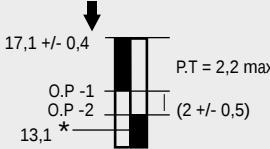
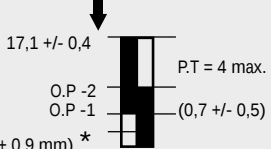
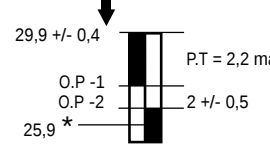
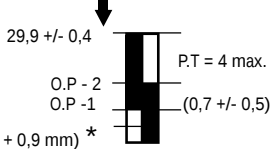
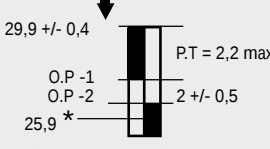
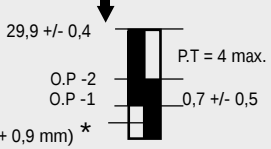
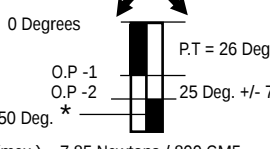
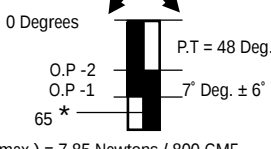
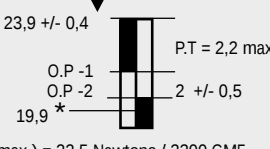
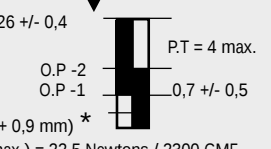
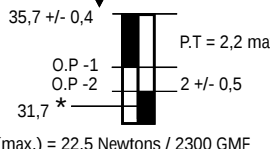
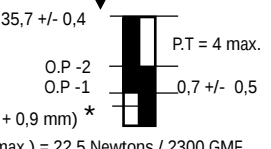
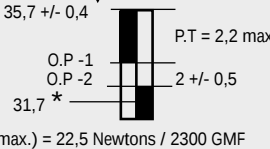
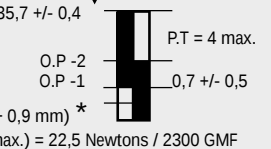


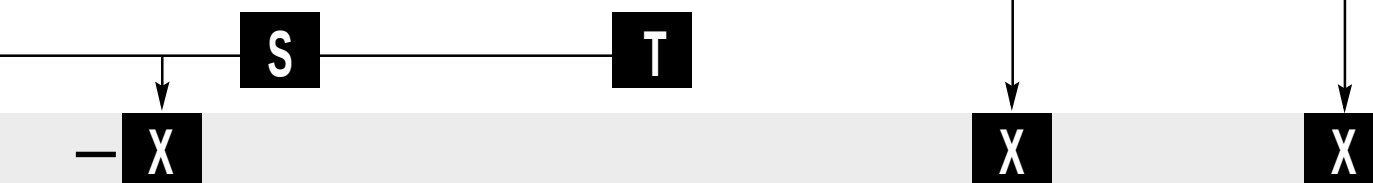
Roller Plunger Perpendicular (Boot Sealed)

55

Y

X OR XX

Slow Action Contacts 1 Normally Closed/ 1 Normally Open Break before make 	Slow Action Contacts 1 Normally Closed/ 1 Normally Open Make before break 	Cable Length (in metres)	Option Codes Available
 17,1 +/- 0,4 P.T = 2,2 max. O.P -1 O.P -2 (2 +/- 0,5) 13,1 * O.F (max.) = 22,5 Newtons / 2300 GMF	 17,1 +/- 0,4 P.T = 4 max. O.P -2 O.P -1 (0,7 +/- 0,5) (O.P1 + 0,9 mm) * O.F (max.) = 22,5 Newtons / 2300 GMF	Specify cable length in 1 metre increments e.g. 1 = 1 metre 2 = 2 metre etc.	A: Side Exit Cable.
 29,9 +/- 0,4 P.T = 2,2 max. O.P -1 O.P -2 2 +/- 0,5 25,9 * O.F (max.) = 22,5 Newtons / 2300 GMF	 29,9 +/- 0,4 P.T = 4 max. O.P -2 O.P -1 (0,7 +/- 0,5) (O.P1 + 0,9 mm) * O.F (max.) = 22,5 Newtons / 2300 GMF		
 29,9 +/- 0,4 P.T = 2,2 max. O.P -1 O.P -2 2 +/- 0,5 25,9 * O.F (max.) = 22,5 Newtons / 2300 GMF	 29,9 +/- 0,4 P.T = 4 max. O.P -2 O.P -1 0,7 +/- 0,5 (O.P1 + 0,9 mm) * O.F (max.) = 22,5 Newtons / 2300 GMF		
 0 Degrees P.T = 26 Deg. max. O.P -1 O.P -2 25 Deg. +/- 7 50 Deg. * O.F (max.) = 7,85 Newtons / 800 GMF	 0 Degrees P.T = 48 Deg. max. O.P -2 O.P -1 7° Deg. ± 6° 65 * O.F (max.) = 7,85 Newtons / 800 GMF		
 23,9 +/- 0,4 P.T = 2,2 max. O.P -1 O.P -2 2 +/- 0,5 19,9 * O.F (max.) = 22,5 Newtons / 2300 GMF	 26 +/- 0,4 P.T = 4 max. O.P -2 O.P -1 0,7 +/- 0,5 (O.P1 + 0,9 mm) * O.F (max.) = 22,5 Newtons / 2300 GMF		
 35,7 +/- 0,4 P.T = 2,2 max. O.P -1 O.P -2 2 +/- 0,5 31,7 * O.F (max.) = 22,5 Newtons / 2300 GMF	 35,7 +/- 0,4 P.T = 4 max. O.P -2 O.P -1 0,7 +/- 0,5 (O.P1 + 0,9 mm) * O.F (max.) = 22,5 Newtons / 2300 GMF		
 35,7 +/- 0,4 P.T = 2,2 max. O.P -1 O.P -2 2 +/- 0,5 31,7 * O.F (max.) = 22,5 Newtons / 2300 GMF	 35,7 +/- 0,4 P.T = 4 max. O.P -2 O.P -1 0,7 +/- 0,5 (O.P1 + 0,9 mm) * O.F (max.) = 22,5 Newtons / 2300 GMF		



924CE Series

Miniature Safety

Electromechanical

Switch



Technical Data

Mechanical life 10 million operations.

Degree of protection 924CE
Standard type: IP 66
With boot seal type: IP 67

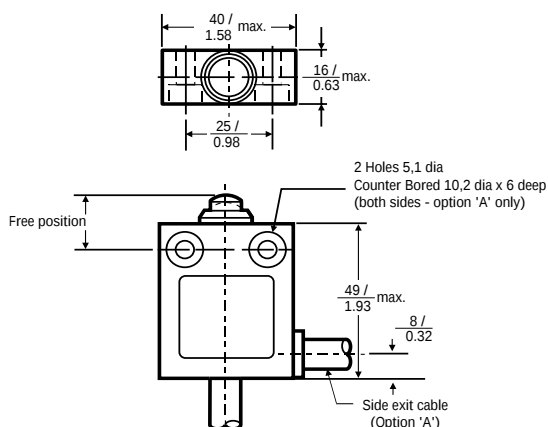
Temperature range *Operating:* 0 °C to +105 °C /
32 °F to +221 °F

Approvals* IEC 60947-5-1
EN 60947-5-1
ac15 B300
dc13 R300
UL, CSA

Electrical According to IEC/EN 60947-5-1.
Rated insulation voltage
 $U_i = 500$ V.
Rated impulse withstand voltage
 $U_{imp} = 2,5$ kV.
Not suitable for isolation.
SCPD, Quick blow fuse to IEC
127 suitable for rated current.

* See Standards (page 179)

Dimensions in mm / in



Cable Type
3 or 5 x 18 AWG SJTO CABLE

Ordering:

924CE

Example: 924CE18-Y3A

Actuator Types

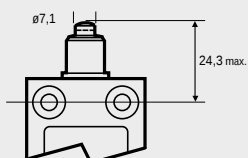
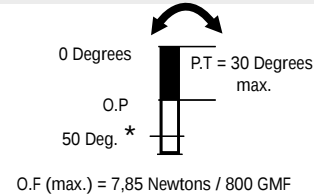
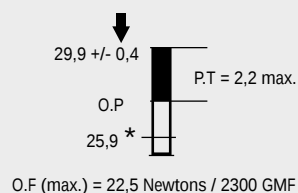
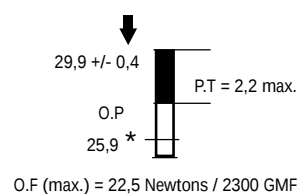
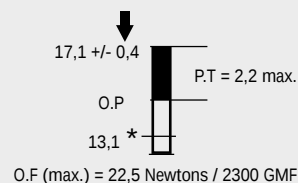
Slow Action Contacts

1 Normally Closed



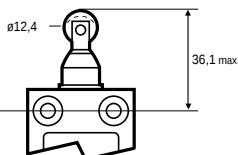
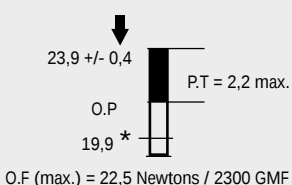
■ Circuit closed

*Positive opening to IEC/EN 60947-5-1-3



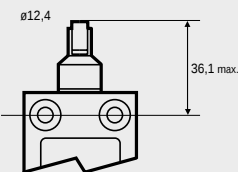
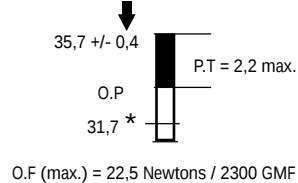
Pin Plunger (Boot Sealed)

18



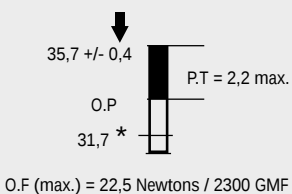
Roller Plunger Parallel (Boot Sealed)

31



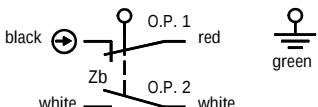
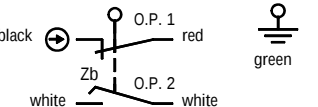
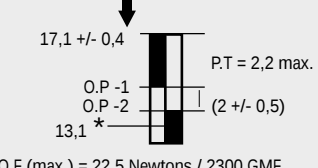
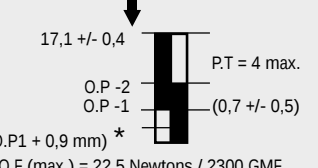
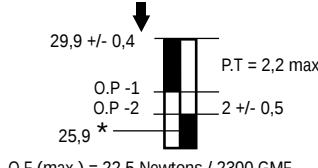
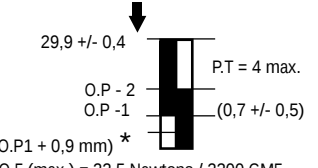
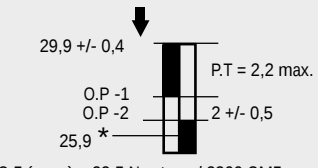
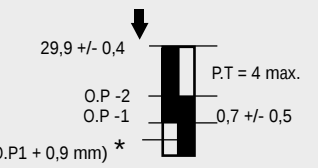
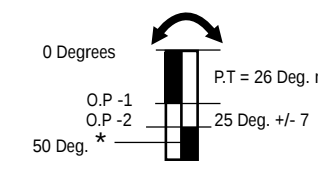
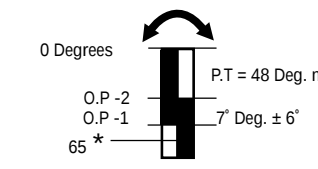
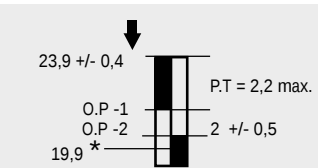
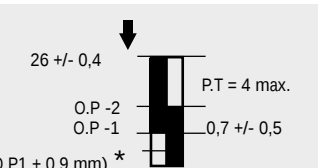
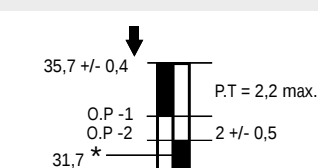
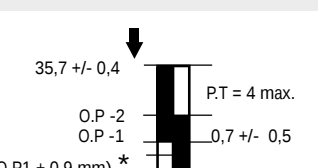
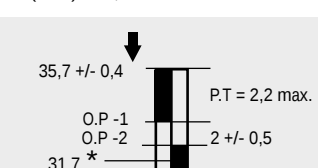
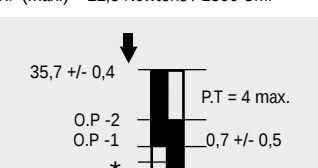
Roller Plunger Perpendicular (Boot Sealed)

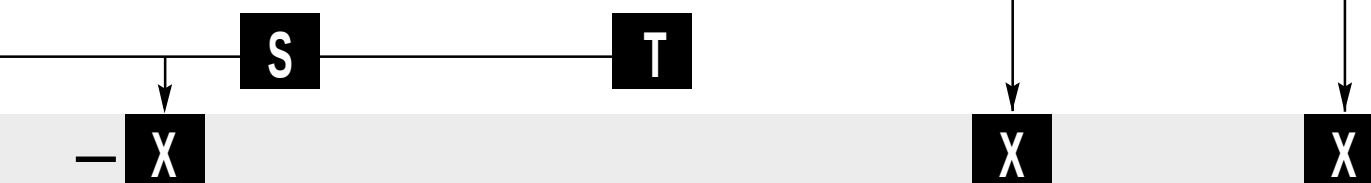
55



Y

X OR XX

Slow Action Contacts 1 Normally Closed/ Break before make	Slow Action Contacts 1 Normally Closed/ Make before break	Cable Length (in feet)	Option Codes
		Specify cable length in 3 feet increments e.g. 3 = 3 feet 6 = 6 feet etc.	A: Side Exit Cable
			
			
			
			
			
			
			





**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331