





K20 - Testata regolabile 90°
90° adjustable head

K120 - Testa girevole
Fully turnable head

K71 - Albero in acciaio zincato
Zinc plated steel shaft

K61 - Leva in acciaio zincato
Zinc plated steel lever

K96 - A fune senza reset per arresto semplice
Pull wire without reset for simple stop

K98 - A fune con reset per arresto di emergenza
Pull wire with reset for emergency stop

Serie SP_K / SP_K Series

Custodia in tecnopolimero
Larghezza 30 mm.
1 Entrata cavi. IP 65
30 mm polymeric casing.
1 cable inlet. IP 65

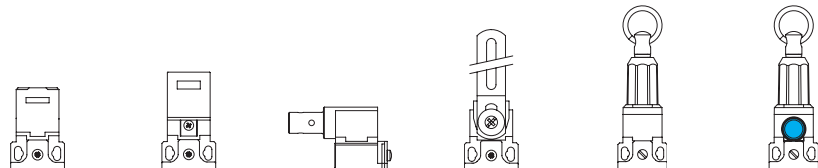


Elementi di contatto / Contact blocks

	K20	K120	K7•	K61	K96	K98
Z11 (1NO+1NC)	SP•K20Z11	SP•K120Z11	SP•K7•Z11	SP•K61Z11	SP•K96Z11	SP•K98Z11
Z02 (2NC)	SP•K20Z02	SP•K120Z02	SP•K7•Z02	SP•K61Z02	SP•K96Z02	SP•K98Z02
X11 (1NO+1NC)	SP•K20X11	SP•K120X11	SP•K7•X11	SP•K61X11	SP•K96X11	SP•K98X11
Y11 (1NO+1NC)	SP•K20Y11	SP•K120Y11	SP•K7•Y11	SP•K61Y11	SP•K96Y11	SP•K98Y11
W02 (2NC)	SP•K20W02	SP•K120W02	SP•K7•W02	SP•K61W02	SP•K96W02	SP•K98W02

Serie SM_K / SM_K Series

Custodia in metallo
Larghezza 30 mm.
1 Entrata cavi. IP 66
30 mm metal casing.
1 cable inlet. IP 66

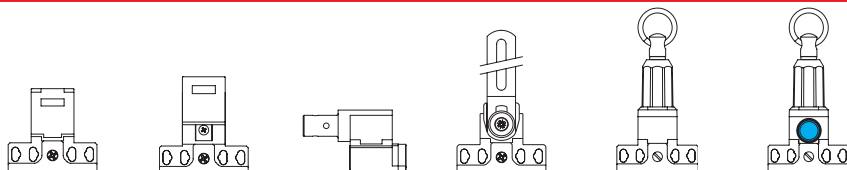


Elementi di contatto / Contact blocks

	K20	K120	K7•	K61	K96	K98
Z11 (1NO+1NC)	SM•K20Z11	SM•K120Z11	SM•K7•Z11	SM•K61Z11	SM•K96Z11	SM•K98Z11
Z02 (2NC)	SM•K20Z02	SM•K120Z02	SM•K7•Z02	SM•K61Z02	SM•K96Z02	SM•K98Z02
X11 (1NO+1NC)	SM•K20X11	SM•K120X11	SM•K7•X11	SM•K61X11	SM•K96X11	SM•K98X11
Y11 (1NO+1NC)	SM•K20Y11	SM•K120Y11	SM•K7•Y11	SM•K61Y11	SM•K96Y11	SM•K98Y11
W02 (2NC)	SM•K20W02	SM•K120W02	SM•K7•W02	SM•K61W02	SM•K96W02	SM•K98W02

Serie SDP_K / SDP_K Series

Custodia in tecnopolimero
Larghezza 50 mm.
2 Entrate cavi. IP 65
50 mm polymeric casing.
2 cable inlets. IP 65

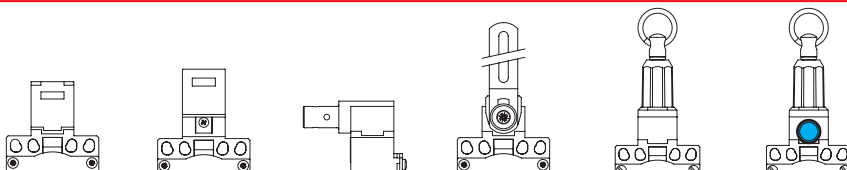


Elementi di contatto / Contact blocks

	K20	K120	K7•	K61	K96	K98
Z11 (1NO+1NC)	SDP•K20Z11	SDP•K120Z11	SDP•K7•Z11	SDP•K61Z11	SDP•K96Z11	SDP•K98Z11
Z02 (2NC)	SDP•K20Z02	SDP•K120Z02	SDP•K7•Z02	SDP•K61Z02	SDP•K96Z02	SDP•K98Z02
X11 (1NO+1NC)	SDP•K20X11	SDP•K120X11	SDP•K7•X11	SDP•K61X11	SDP•K96X11	SDP•K98X11
Y11 (1NO+1NC)	SDP•K20Y11	SDP•K120Y11	SDP•K7•Y11	SDP•K61Y11	SDP•K96Y11	SDP•K98Y11
W02 (2NC)	SDP•K20W02	SDP•K120W02	SDP•K7•W02	SDP•K61W02	SDP•K96W02	SDP•K98W02

Serie SDM_K / SDM_K Series

Custodia in metallo
Larghezza 50 mm.
3 Entrate cavi. IP 66
50 mm metal casing.
3 cable inlets. IP 66



Elementi di contatto / Contact blocks

	K20	K120	K7•	K61	K96	K98
Z11 (1NO+1NC)	SDM•K20Z11	SDM•K120Z11	SDM•K7•Z11	SDM•K61Z11	SDM•K96Z11	SDM•K98Z11
Z02 (2NC)	SDM•K20Z02	SDM•K120Z02	SDM•K7•Z02	SDM•K61Z02	SDM•K96Z02	SDM•K98Z02
X11 (1NO+1NC)	SDM•K20X11	SDM•K120X11	SDM•K7•X11	SDM•K61X11	SDM•K96X11	SDM•K98X11
Y11 (1NO+1NC)	SDM•K20Y11	SDM•K120Y11	SDM•K7•Y11	SDM•K61Y11	SDM•K96Y11	SDM•K98Y11
W02 (2NC)	SDM•K20W02	SDM•K120W02	SDM•K7•W02	SDM•K61W02	SDM•K96W02	SDM•K98W02



Serie SBM_K / SBM_K Series




Custodia in alluminio
 Larghezza 40 mm.
 1 Entrata cavi. IP 66
 40 mm aluminium casing.
 1 cable inlet. IP 66

K30/K40 - Azionamento a chiave
 testa regolabile 90°
*Key operated
 90° adjustable head*

K97 - A fune senza reset
 per arresto semplice
*Pull wire without reset
 for simple stop*

K99 - A fune con reset
 per arresto di emergenza
*Pull wire with reset
 for emergency stop*

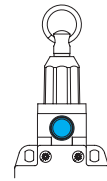
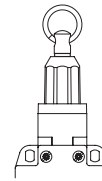
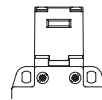
Elementi di contatto / Contact blocks

	 K40	 K97	 K99
Z11 (1NO+1NC)	SBM•K40Z11	SBM•K97Z11	SBM•K99Z11
Z02 (2NC)	SBM•K40Z02	SBM•K97Z02	SBM•K99Z02
X11 (1NO+1NC)	SBM•K40X11	SBM•K97X11	SBM•K99X11
Y11 (1NO+1NC)	SBM•K40Y11	SBM•K97Y11	SBM•K99Y11
W02 (2NC)	SBM•K40W02	SBM•K97W02	SBM•K99W02
X21 (2NO+1NC)	SBM•K40X21	SBM•K97X21	SBM•K99X21
X12 (1NO+2NC)	SBM•K40X12	SBM•K97X12	SBM•K99X12
W03 (3NC)	SBM•K40W03	SBM•K97W03	SBM•K99W03






Serie SCM_K / SCM_K Series

Custodia in alluminio
 Larghezza 60 mm.
 3 Entrate cavi. IP 66
 60 mm aluminium casing.
 3 cable inlets. IP 66



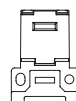
Elementi di contatto / Contact blocks

	 K40	 K97	 K99
Z11 (1NO+1NC)	SCM•K40Z11	SCM•K97Z11	SCM•K99Z11
Z02 (2NC)	SCM•K40Z02	SCM•K97Z02	SCM•K99Z02
X11 (1NO+1NC)	SCM•K40X11	SCM•K97X11	SCM•K99X11
Y11 (1NO+1NC)	SCM•K40Y11	SCM•K97Y11	SCM•K99Y11
W02 (2NC)	SCM•K40W02	SCM•K97W02	SCM•K99W02
X21 (2NO+1NC)	SCM•K40X21	SCM•K97X21	SCM•K99X21
X12 (1NO+2NC)	SCM•K40X12	SCM•K97X12	SCM•K99X12
W03 (3NC)	SCM•K40W03	SCM•K97W03	SCM•K99W03




Serie SBP_K / SBP_K Series

Custodia in tecnopolimero
 Larghezza 40 mm.
 1 Entrata cavi. IP 65
 40 mm polymeric casing.
 1 cable inlet. IP 65



Elementi di contatto / Contact blocks

	 K30
Z11 (1NO+1NC)	SBP•K30Z11
Z02 (2NC)	SBP•K30Z02
X11 (1NO+1NC)	SBP•K30X11
Y11 (1NO+1NC)	SBP•K30Y11
W02 (2NC)	SBP•K30W02
X21 (2NO+1NC)	SBP•K30X21
X12 (1NO+2NC)	SBP•K30X12
W03 (3NC)	SBP•K30W03

Collegamenti elettrici / Electrical connection

Sostituire il simbolo • con il numero del filetto desiderato / Replace the symbol • with the number of the required thread

- 1: PG 13,5
- 2: 1/2" NPT (tramite adattatore sulle serie SP e SDP / Through adapter on SP and SDP series)
- 3: PG 11 (disponibile su serie SP, SM, SDP, e SDM) / Available on SP, SM, SDP and SDM series)
- 4: M16x1,5 (disponibile su serie SP, SM, SDP, e SDM) / Available on SP, SM, SDP and SDM series)
- 5: M20x1,5

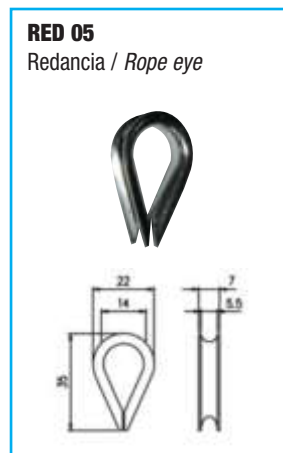
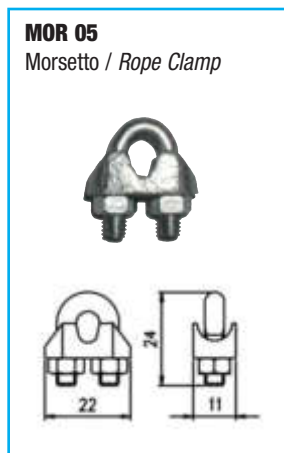
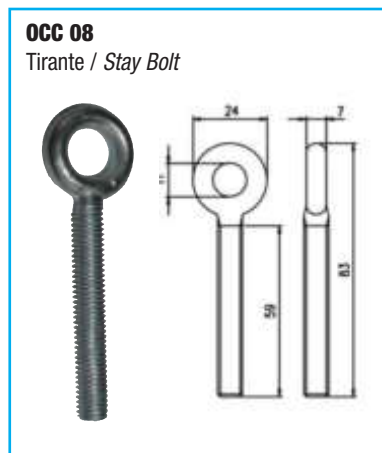
Dispositivo di comando a chiave (da ordinarsi separatamente)

Operating keys (to be ordered separately)



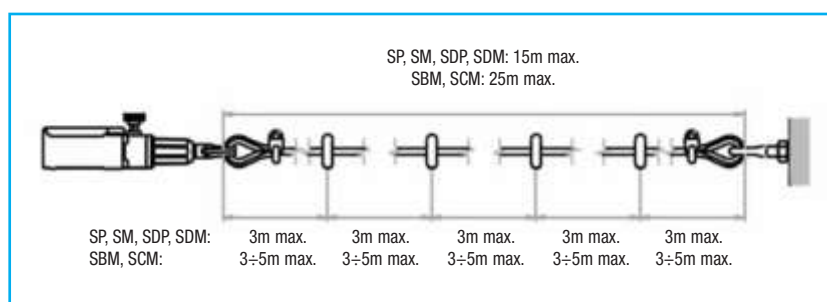
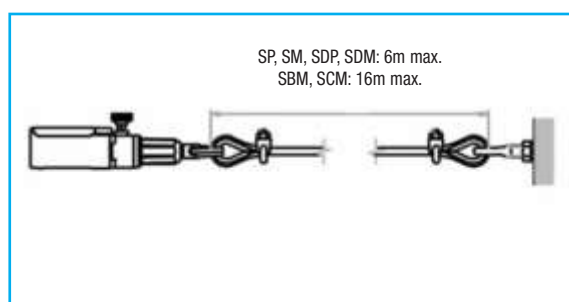
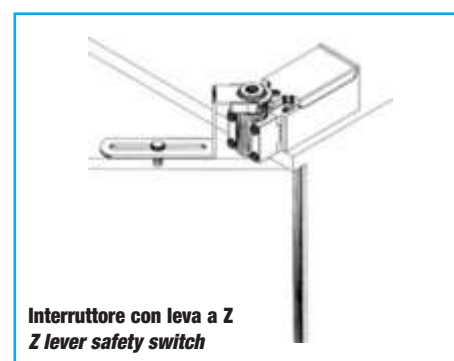
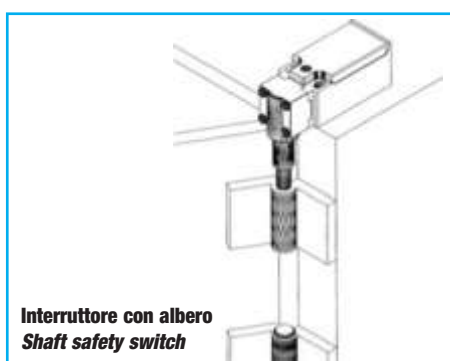
Descrizione Description	Chiave ad angolo Bent key	Chiave piana Flat key	Chiave ad angolo Bent key	Chiave piana Flat key	Chiave ad angolo ammortizzata Shock absorbing bent key	Chiave piana ammortizzata Shock absorbing flat key	Chiave snodata regolabile Adjustable joint key
Interasse fori di fissaggio Centre distance fixing holes	22	22	13	13	15	15	40
Codice / Order code							
Per testine di comando K20 e K120 For operating heads K20 and K120	13	14	15	16	17	18	19
Per testine di comando K30 e K40 For operating heads K30 and K40			35	36			39

Accessori / Accessories



Esempi di applicazione

Examples of applications



Interruttore a fune
Pull wire safety switch

Applicazione

I finecorsa di sicurezza **Comepi** sono progettati e realizzati secondo le regole stabilite dalle pubblicazioni IEC e secondo quanto previsto dalle Norme Europee in vigore.

Di facile uso, i finecorsa elettromeccanici offrono vantaggi particolari:

- Visibilità nel funzionamento.
- In grado di commutare correnti elevate (corrente termica convenzionale 10 A).
- Contatti elettricamente separati tipo Zb.
- Punti di intervento precisi.
- Immunità da disturbi elettromagnetici.
- Blocchi contatto con manovra di apertura positiva sui contatti normalmente chiusi (⊕).

Application

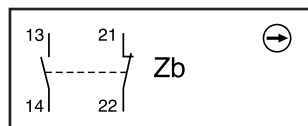
The *Comepi* limit switches are developed and manufactured according to the rules set out in IEC international publications and EN european standards.

Easy to use, electromechanical limit switches offer specific qualities:

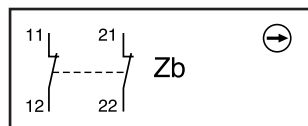
- Visible operation.
- Able to switch strong currents (10 A conventional thermal current).
- Precise operating points (consistency).
- Immune to electromagnetic disturbances.
- Electrically separated contacts.
- N.C. contacts with positive opening operation (⊕).

Blocchi Contatto / Contact Blocks

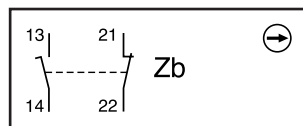
Z11 A scatto
1NA+1NC
Snap action
1NO+1NC



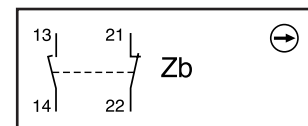
Z02 A scatto
2NC
Snap action
2NC



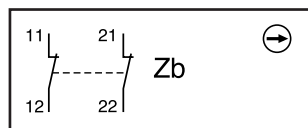
X11 Azione lenta scalata
1NA+1NC
Slow action break before
make 1NO+1NC



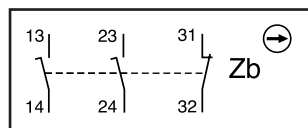
Y11 Azione lenta accavallata
1NA+1NC
Slow action make before
break 1NO+1NC



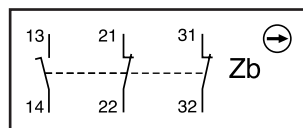
W02 Azione lenta simultanea
2NC
Simultaneous slow action
2NC



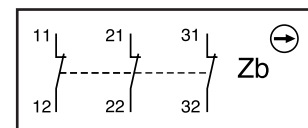
X21 Azione lenta scalata
2NA+1NC
Slow action break before
make 2NO+1NC



X12 Azione lenta scalata
1NA+2NC
Slow action break before
make 1NO+2NC



W03 Azione lenta simultanea
3NC
Simultaneous slow action
3NC



Dati Tecnici principali / Main Technical Data

	SP, SBP, SDP series	SM, SBM, SCM, SDM series
Norme / Standards	IEC 947-5-1, EN 60947-5-1, UL 508, CSA C22-2 No 14	
Temperatura ambiente di funzionamento / Operating temperature range	-25°C... +70°C	
Protezione contro shock elettrici (secondo IEC 536) Protection against electrical shocks (acc. to IEC 536)	Classe II / Class II	Classe I / Class I
Grado di protezione (secondo IEC 529) / Protection degree (acc. to IEC 529)	IP65	IP 66
Tensione nominale di isolamento (secondo IEC 947-1) / Rated insulation voltage (acc. to IEC 947-1)	U _i = 690V (SM, SDM series: U _i = 400V)	
Tensione nominale di tenuta agli shock (secondo IEC 947-1) Rated impulsive withstand voltage (acc. to IEC 947-1)	U _{imp} = 6kV	
Protezione contro i cortocircuiti / Short-circuit protection	Fusibile 10A tipo gG (gl) / Fuse 10A type gG (gl)	
Categoria di impiego / Power category	A600 - Q600 (SM, SDM series: A300 - Q300)	
Corrente nominale di impiego (secondo IEC 947-5-1) Rated operational current (acc. to IEC 947-5-1)	AC-15: 24V-10A; 230V-3,1A; 380V-1,9A DC-13: 24V-2,8A; 250V-0,27A	

Questo particolare interruttore di finecorsa è stato realizzato per rispondere alle richieste derivanti da applicazioni nelle quali sia necessario simulare lo scambio dei contatti senza agire direttamente sul pistoncino di manovra. L'utilizzo di questo dispositivo è particolarmente utile nella realizzazione di quadri elettrici al fine di simulare l'avvenuta chiusura dello sportello premendo semplicemente il pulsante giallo presente sull'interruttore; il personale addetto potrà pertanto intervenire sul circuito interno per eseguire modifiche, manutenzioni, etc....

Le condizioni di normale funzionamento dell'interruttore vengono automaticamente ripristinate alla chiusura dello sportello del quadro elettrico considerato.

This particular limit switch has been developed in order to fulfill all the requests coming from applications in which there is the necessity to simulate the change over in contacts position without acting directly, on the plunger of the switch.

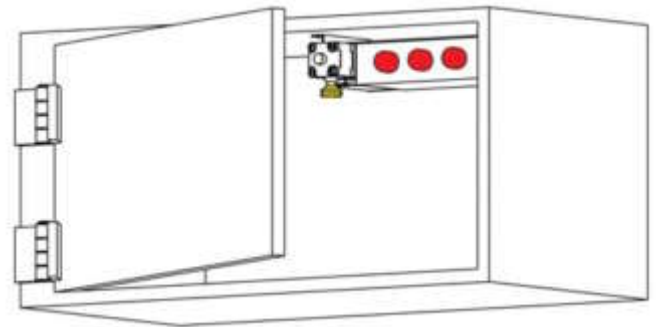
The use of this device is particularly useful in the realization of electrical boards in order to simulate the closing of the door simply by pushing the yellow button on the limit switch; the assigned staff will then be able to work on the internal circuit to make modifications, maintenance, etc...

The conditions of normal operation are automatically restored once the door of the electric board is closed.

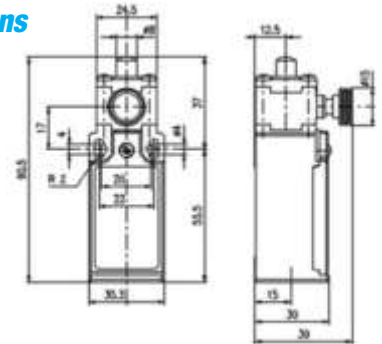
Dati Tecnici / Technical Data

	AP•R001Z11
Norme / Standards	IEC 947-5-1, EN 60947-5-1
Temperatura ambiente di funzionamento <i>Operating temperature range</i>	-25°C... +70°C
Protezione contro shock elettrici (secondo IEC 536) <i>Protection against electrical shocks (acc. to IEC 536)</i>	Classe II <i>Class II</i>
Grado di protezione (secondo IEC 529) <i>Protection degree (acc. to IEC 529)</i>	IP65
Grado di inquinamento / <i>Pollution degree</i>	3
Tensione nominale di isolamento (secondo IEC 947-1) <i>Rated insulation voltage (acc. to IEC 947-1)</i>	$U_i = 690V$
Tensione nominale di tenuta agli shock (secondo IEC 947-1) <i>Rated impulsive withstand voltage</i> <i>(acc. to IEC 947-1)</i>	$U_{imp} = 6kV$
Protezione contro i cortocircuiti <i>Short-circuit protection</i>	Fusibile 10A tipo gG (gl) <i>Fuse 10A type gG (gl)</i>
Categoria di impiego / <i>Power category</i>	A600 - Q600
Corrente nominale di impiego (secondo IEC 947-5-1) <i>Rated operational current (acc. to IEC 947-5-1)</i>	AC-15: 24V-10A; 230V-3,1A; 380V-1,9A DC-13: 24V-2,8A; 250V-0,27A
Durata meccanica <i>Mechanical durability</i>	25.000 manovre 25.000 operations

Esempio di applicazione / Example of application



Dimensioni / Dimensions



Codice / <i>Order Code</i>	AP•R001Z11
Descrizione contatti: <i>Contact description:</i>	tipo Zb scatto rapido (1NA+1NC) Zb type snap action (1NO+1NC)
Diagramma <i>Operation diagram</i>	0 1.3 2.5 4.1 5.6 mm
Entrata cavi <i>Electrical connection</i>	AP1: 1 ingresso cavi per pressacavi PG 13.5 AP2: 1 ingresso cavi 1/2" NPT (con adattatore) AP3: 1 ingresso cavi per pressacavi PG 11 AP4: 1 ingresso cavi per pressacavi M 16 x 1,5 AP5: 1 ingresso cavi per pressacavi M 20 x 1,5 AP1: one cable inlet for PG 13.5 cable gland AP2: one cable inlet by 1/2" NPT plastic adapter AP3: one cable inlet for PG 11 cable gland AP4: one cable inlet for M 16 x 1,5 cable gland AP5: one cable inlet for M 20 x 1,5 cable gland