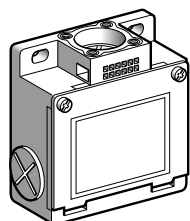


Limit switches

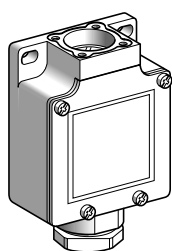
Metal, types XCK-M and XCK-L
Adaptable sub-assemblies

Setting-up :
page 32103/6
Dimensions :
pages 32103/6 and 32103/7

References



ZCK-M●



ZCK-L●

Body/contact assemblies for plunger or rotary head

Contact block	Scheme	Positive operation (1)	Reference	Weight kg
For limit switches type XCK-M				
2-pole 1 N/C + 1 N/O snap action (XES-P2151)		⊕	ZCK-M1	0.210
2-pole 1 N/C + 1 N/O break before make slow break (XEN-P2151)		⊕	ZCK-M5	0.210
2-pole 1 N/O + 1 N/C make before break slow break (XEN-P2161)		⊕	ZCK-M6	0.210
2-pole 1 N/C + 1 N/C simultaneous slow break (XEN-P2141)		⊕	ZCK-M7	0.210
2-pole 1 N/O + 1 N/O simultaneous slow break (XEN-P2131)		-	ZCK-M8	0.210
2-pole 1 N/C + 1 N/C snap action (XES-P2141)		⊕	ZCK-M9	0.210
For limit switches type XCK-L				
2-pole 1 N/C + 1 N/O snap action (XES-P2151)		⊕	ZCK-L1	0.210
2-pole 1 N/C + 1 N/O break before make slow break (XEN-P2151)		⊕	ZCK-L5	0.210
2-pole 1 N/O + 1 N/C make before break slow break (XEN-P2161)		⊕	ZCK-L6	0.210
2-pole 1 N/C + 1 N/C simultaneous slow break (XEN-P2141)		⊕	ZCK-L7	0.210
2-pole 1 N/O + 1 N/O simultaneous slow break (XEN-P2131)		-	ZCK-L8	0.210

(1) ⊕ : N/C contact with positive opening operation.

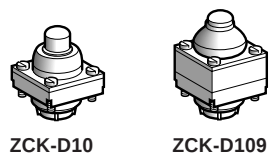
Limit switches

Metal, types XCK-M and XCK-L
Adaptable sub-assemblies

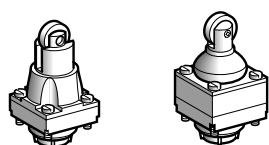
Setting-up :
page 32103/6
Dimensions :
pages 32103/6 and 32103/7

References

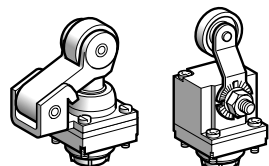
Plunger heads



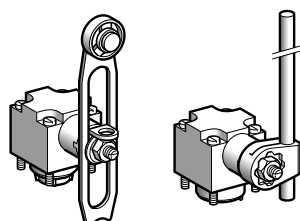
ZCK-D10 ZCK-D109



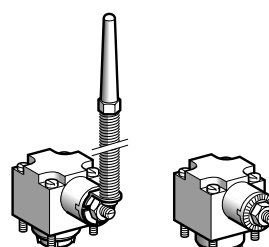
ZCK-D02 ZCK-D029



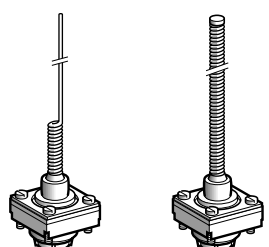
ZCK-D2 ZCK-D1



ZCK-D41 ZCK-D59



ZCK-D81 ZCK-D05



ZCK-D06 ZCK-D08

Type of operator	Max. actuation speed	Positive operation (1)	Reference	Weight kg
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For actuation on end

End plunger steel	standard	0.5 m/s	⊙	ZCK-D10	0.035
	with protective boot	0.5 m/s	⊙	ZCK-D109	0.035

For actuation by 30° cam

Roller plunger steel	standard	0.5 m/s	⊙	ZCK-D02	0.040
	with protective boot	0.5 m/s	⊙	ZCK-D029	0.040

Roller lever plunger thermoplastic (1 dir. of actuation)	standard	1.5 m/s	⊙	ZCK-D21	0.080
	with protective boot	1.5 m/s	⊙	ZCK-D219	0.080

Roller lever plunger steel (1 dir. of actuation)	standard	1.5 m/s	⊙	ZCK-D23	0.090
	with protective boot	1.5 m/s	⊙	ZCK-D239	0.090

Rotary heads (with operating lever)

Type of operator	Max. actuation speed	Positive operation (1)	Reference	Weight kg
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For actuation by 30° cam

Roller lever (2)	thermoplastic	1.5 m/s	⊙	ZCK-D15	0.065
	steel	1.5 m/s	⊙	ZCK-D16	0.075
	steel, ball bearing mounted	1.5 m/s	⊙	ZCK-D17	0.070

Variable length roller lever (2)	thermoplastic	1.5 m/s	—	ZCK-D41	0.090
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For actuation by any moving part

Rod lever thermoplastic Ø 6 mm, L = 200 mm (3)	1 m/s	—	ZCK-D59	0.085
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Spring lever (2)	1 m/s	—	ZCK-D81	0.085
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Spring metal rod lever (2)	1 m/s	—	ZCK-D91	0.090
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Rotary head (without operating lever)

Type	Positive operation (1)	Reference	Weight kg
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For actuation from left and right OR from left or right (see page 31900/8)	⊙	ZCK-D05	0.065
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Multi-directional heads

Type of operator	Max. actuation speed	Positive operation (1)	Reference	Weight kg
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For actuation by any moving part

"Cat's whisker"	1 m/s in any direction	—	ZCK-D06	0.030
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Spring rod lever	0.5 m/s in any direction	—	ZCK-D08	0.035
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(1) ⊙ : Operating head able to guarantee positive opening operation.

(2) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.

(3) Adjustable throughout 360° in 5° steps, or in 45° steps by reversing the lever mounting.

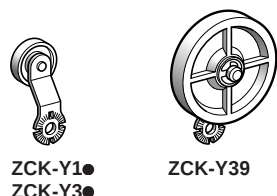
Limit switches

Metal, types XCK-M and XCK-L
Adaptable sub-assemblies

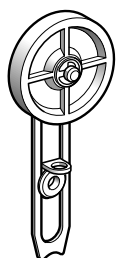
Setting-up :
page 32103/6
Dimensions :
pages 32103/6 and 32103/7

References

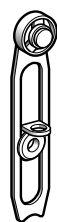
Operating levers for rotary heads



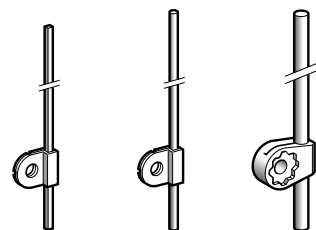
ZCK-Y1●
ZCK-Y3●



ZCK-Y49



ZCK-Y41
ZCK-Y43



ZCK-Y54

ZCK-Y55

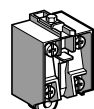
ZCK-Y59



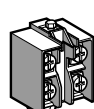
ZCK-Y81



ZCK-Y91



XES-P21●1



XEN-P21●1

Description		Positive operation (1)	Reference	Weight kg
For actuation by 30° cam				
Roller lever (2) for heads ZCK-D1●	thermoplastic	⊕	ZCK-Y15	0.015
	steel	⊕	ZCK-Y16	0.025
	steel, ball bearing mounted	⊕	ZCK-Y17	0.020
Roller lever (2) for head ZCK-D05	thermoplastic	⊕	ZCK-Y31	0.015
	steel	⊕	ZCK-Y33	0.025
	steel, ball bearing mounted	⊕	ZCK-Y34	0.020
	elastomer Ø 50 mm roller	–	ZCK-Y39	0.020
Variable length roller lever (2)	thermoplastic	–	ZCK-Y41	0.025
	steel	–	ZCK-Y43	0.035
	elastomer Ø 50 mm roller	–	ZCK-Y49	0.030
For actuation by any moving part				
Square rod (2)	Ø 3 mm steel, L = 125 mm	–	ZCK-Y54	0.020
Round rod	Ø 3 mm glass fibre, L = 125 mm (2)	–	ZCK-Y55	0.010
	Ø 6 mm thermoplastic, L = 200 mm (3)	–	ZCK-Y59	0.020
Spring lever (2)		–	ZCK-Y81	0.020
Spring metal rod lever (2)		–	ZCK-Y91	0.025

Contact blocks

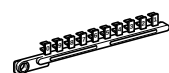
Type of contact	Scheme	For body type	Positive operation (1)	Reference	Weight kg
2-pole 1 N/C + 1 N/O snap action		ZCK-M1 ZCK-L1	⊕	XES-P2151	0.020
2-pole 1 N/C + 1 N/O break before make slow break		ZCK-M5 ZCK-L5	⊕	XEN-P2151	0.020
2-pole 1 N/O + 1 N/C make before break slow break		ZCK-M6 ZCK-L6	⊕	XEN-P2161	0.020
2-pole 1 N/C + 1 N/C simultaneous slow break		ZCK-M7 ZCK-L7	⊕	XEN-P2141	0.020
2-pole 1 N/O + 1 N/O simultaneous slow break		ZCK-M8 ZCK-L8	–	XEN-P2131	0.020
2-pole 1 N/C + 1 N/C snap action		ZCK-M9	⊕	XES-P2141	0.020

Accessories for limit switches type XCK-M

Description	Sold in lots of	Unit reference	Weight kg
Tap off terminal for cabling continuity	1	XCK-Z09	0.010
Clip-in markers (strips of 10 markers : 0 to 9) For markers with other markings please consult your Regional Sales Office	25	AB1-R11	0.002



XCK-Z09



AB1-R11

(1) ⊕ : N/C contact with positive opening operation or sub-assembly for positive opening operation.
(2) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.
(3) Adjustable throughout 360° in 5° steps, or in 45° steps by reversing the lever mounting.

Other versions

Contact blocks with gold flashed contacts.
Please consult your Regional Sales Office.

Limit switches

Metal, types XCK-M and XCK-L
Adaptable sub-assemblies

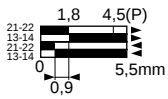
References :
pages 32103/3 to 32103/5
Dimensions :
pages 32103/6 and 32103/7

Setting-up, dimensions

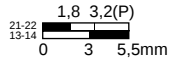
Function diagrams

Heads ZCK-D10, D109 with body

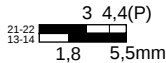
ZCK-M1, L1



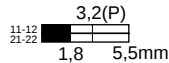
ZCK-M5, L5



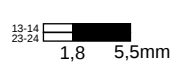
ZCK-M6, L6



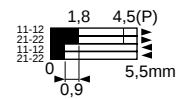
ZCK-M7, L7



ZCK-M8, L8

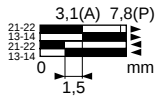


ZCK-M9

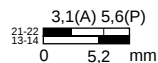


Heads ZCK-D02, D029 with body

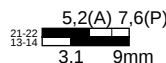
ZCK-M1, L1



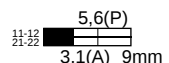
ZCK-M5, L5



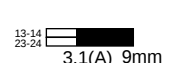
ZCK-M6, L6



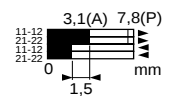
ZCK-M7, L7



ZCK-M8, L8

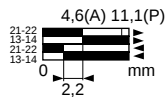


ZCK-M9

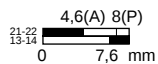


Heads ZCK-D21, D23, D219, D239 with body

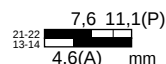
ZCK-M1, L1



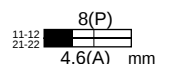
ZCK-M5, L5



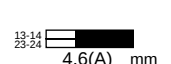
ZCK-M6, L6



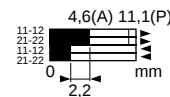
ZCK-M7, L7



ZCK-M8, L8

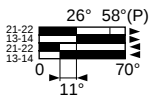


ZCK-M9

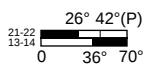


Heads ZCK-D15, D16, D17, D41, D59, D81, D91 with body

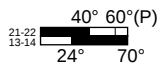
ZCK-M1, L1



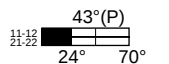
ZCK-M5, L5



ZCK-M6, L6



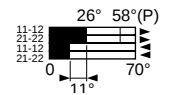
ZCK-M7, L7



ZCK-M8, L8

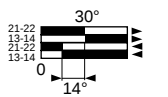


ZCK-M9

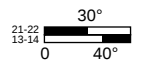


Heads ZCK-D06, D08 with body

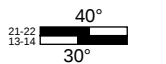
ZCK-M1, L1



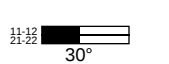
ZCK-M5, L5



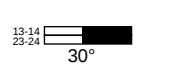
ZCK-M6, L6



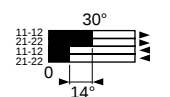
ZCK-M7, L7



ZCK-M8, L8



ZCK-M9



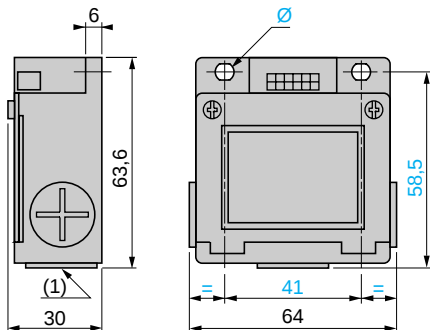
Contact operation
■ contact closed
□ contact open

(A) = cam displacement
(P) = positive opening point

Dimensions

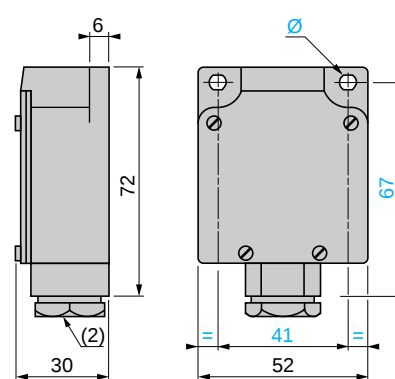
Body/contact assemblies

ZCK-M1, M5, M6, M7, M8, M9



(1) 3 cable entries, tapped for n° 11 cable gland
(2) Incorporated cable gland
Ø : 2 elongated holes Ø 5.2 x 6.2

ZCK-L1, L5, L6, L7, L8



Limit switches

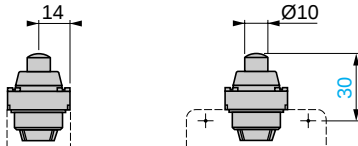
Metal, types XCK-M and XCK-L
Adaptable sub-assemblies

References :
pages 32103/3 to 32103/5
Setting-up :
page 32103/6

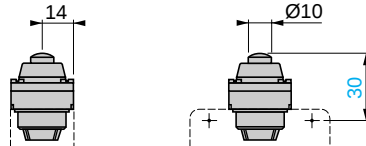
Dimensions

Plunger heads

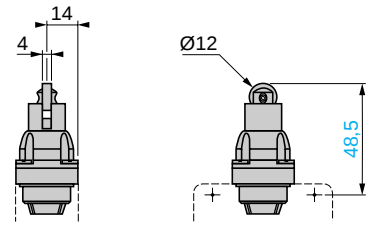
ZCK-D10



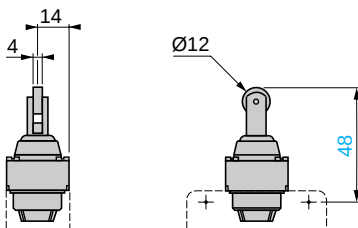
ZCK-D109



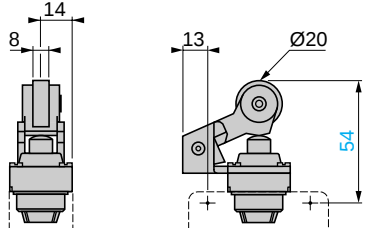
ZCK-D02



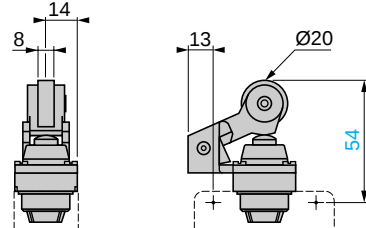
ZCK-D029



ZCK-D21, D23

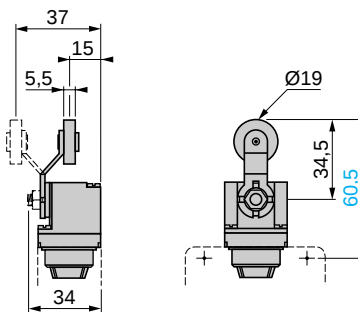


ZCK-D219, D239

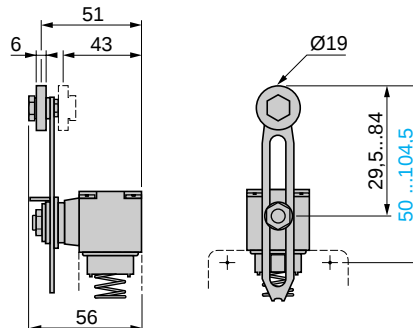


Rotary heads

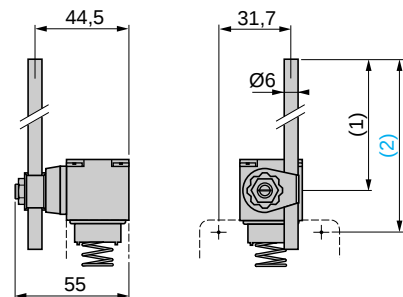
ZCK-D15, D16, D17



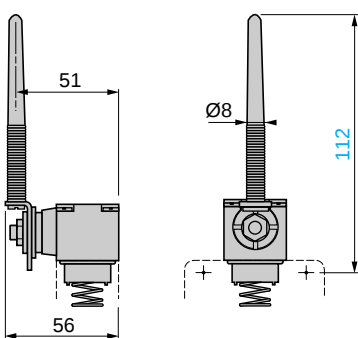
ZCK-D41



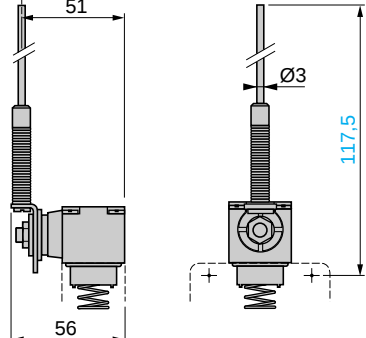
ZCK-D59



ZCK-D81



ZCK-D91



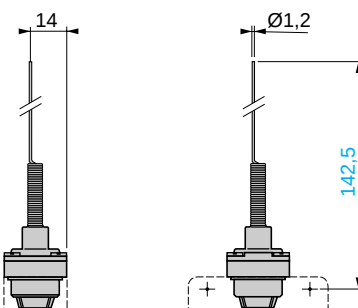
(1) 190 max.

(2) 210.5 max.

Note : operating lever spindle threaded M6

Multi-directional heads

ZCK-D06



ZCK-D08

