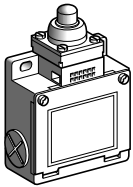
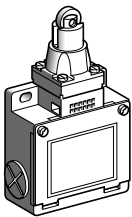
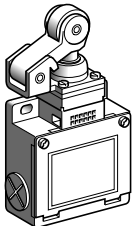
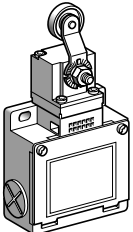
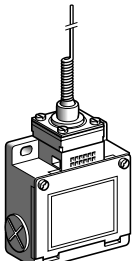


# References, characteristics **Limit switches**







Metal, type XCK-M

Complete switches with 3 cable entries for n° 11 cable glands

Type of operating head	Plunger	Rotary	Multi-directional		
					
					
Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger. Horizontal actuation in 1 dir.	Thermoplastic roller lever (1)	"Cat's whisker"

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

## References ( ⊖ N/C contact with positive opening operation)

2-pole 1 N/C + 1 N/O snap action (XES-P2151)		<b>XCK-M110</b> ⊖	<b>XCK-M102</b> ⊖	<b>XCK-M121</b> ⊖	<b>XCK-M115</b> ⊖	<b>XCK-M106</b>
2-pole 1 N/C + 1 N/O break before make slow break (XEN-P2151)		<b>XCK-M510</b> ⊖	<b>XCK-M502</b> ⊖	<b>XCK-M521</b> ⊖	<b>XCK-M515</b> ⊖	<b>XCK-M506</b>
2-pole 1 N/O + 1 N/C make before break slow break (XEN-P2161)		<b>ZCK-M6 + ZCK-D10</b> ⊖	<b>ZCK-M6 + ZCK-D02</b> ⊖	<b>ZCK-M6 + ZCK-D21</b> ⊖	<b>ZCK-M6 + ZCK-D15</b> ⊖	<b>ZCK-M6 + ZCK-D06</b>
2-pole 1 N/C + 1 N/C simultaneous slow break (XEN-P2141)		<b>ZCK-M7 + ZCK-D10</b> ⊖	<b>ZCK-M7 + ZCK-D02</b> ⊖	<b>ZCK-M7 + ZCK-D21</b> ⊖	<b>ZCK-M7 + ZCK-D15</b> ⊖	<b>ZCK-M7 + ZCK-D06</b>
2-pole 1 N/O + 1 N/O simultaneous slow break (XEN-P2131)		<b>ZCK-M8 + ZCK-D10</b>	<b>ZCK-M8 + ZCK-D02</b>	<b>ZCK-M8 + ZCK-D21</b>	<b>ZCK-M8 + ZCK-D15</b>	<b>ZCK-M8 + ZCK-D06</b>
2-pole 1 N/C + 1 N/C snap action (XES-P2141)		<b>ZCK-M9 + ZCK-D10</b> ⊖	<b>ZCK-M9 + ZCK-D02</b> ⊖	<b>ZCK-M9 + ZCK-D21</b> ⊖	<b>ZCK-M9 + ZCK-D15</b> ⊖	<b>ZCK-M9 + ZCK-D06</b>
Weight (kg)	0.250	0.255	0.300	0.280	0.250	

## Complementary characteristics not shown under General characteristics (page 32100/3)

<b>Switch actuation</b>	On end	By 30° cam	By any moving part			
<b>Maximum actuation speed</b>	0.5 m/s	1.5 m/s	1 m/s in any direction			
<b>Mechanical durability</b>	20 million operating cycles		15 million operating cycles			
			10 million operating cycles			
<b>Minimum force or torque</b>	for tripping	15 N	12 N	8 N	0.1 N.m	0.13 N.m
	for positive opening	45 N	36 N	24 N	0.25 N.m	—
<b>Cable entry</b>	3 tapped entries for n° 11 cable glands conforming to NF C 68-300 (DIN Pg 11). Clamping capacity : 7 to 10 mm. (Switch supplied with 2 entries fitted with blanking plugs).					

**Other versions** Switches with gold flashed contacts. Special protective treatments. Please consult your Regional Sales Office.

# Limit switches

Metal, type XCK-M

Complete switches with 3 cable entries for n° 11 cable glands

**Setting-up**

Type of actuation

XCK-M●10, ZCK-D10



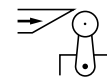
XCK-M●02, ZCK-D02



XCK-M●21, ZCK-D21



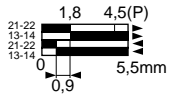
XCK-M●15, ZCK-D15



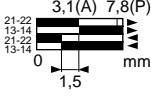
XCK-M●06, ZCK-D06



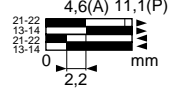
Function diagrams  
XCK-M110



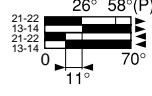
XCK-M102



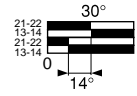
XCK-M121



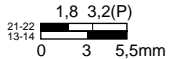
XCK-M115



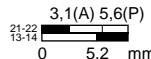
XCK-M106



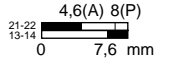
XCK-M510



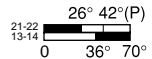
XCK-M502



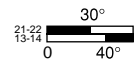
XCK-M521



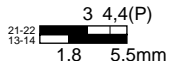
XCK-M515



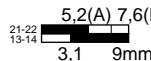
XCK-M506



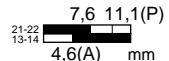
ZCK-M6 + ZCK-D10



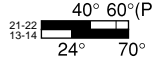
ZCK-M6 + ZCK-D02



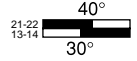
ZCK-M6 + ZCK-D21



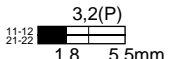
ZCK-M6 + ZCK-D15



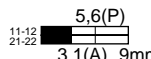
ZCK-M6 + ZCK-D06



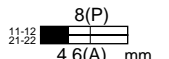
ZCK-M7 + ZCK-D10



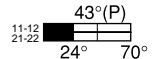
ZCK-M7 + ZCK-D02



ZCK-M7 + ZCK-D21



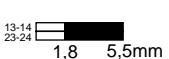
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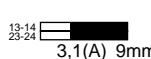
ZCK-M7 + ZCK-D06



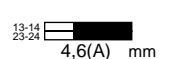
ZCK-M8 + ZCK-D10



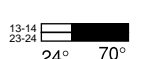
ZCK-M8 + ZCK-D02



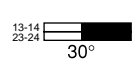
ZCK-M8 + ZCK-D21



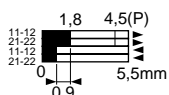
ZCK-M8 + ZCK-D15



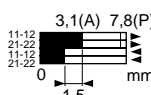
ZCK-M8 + ZCK-D06



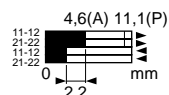
ZCK-M9 + ZCK-D10



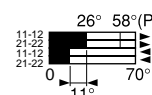
ZCK-M9 + ZCK-D02



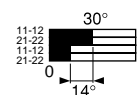
ZCK-M9 + ZCK-D21



ZCK-M9 + ZCK-D15



ZCK-M9 + ZCK-D06



Contact operation

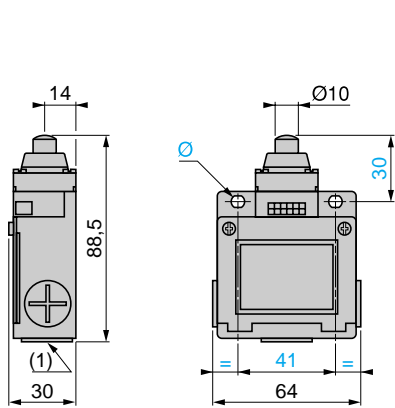
■ contact closed □ contact open

(A) = cam displacement

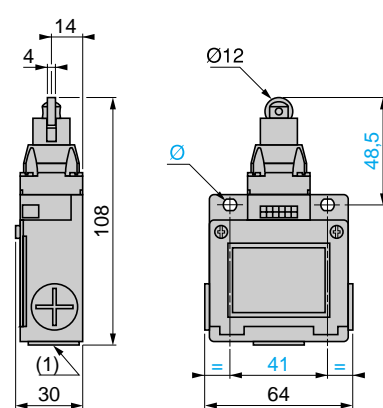
(P) = positive opening point

**Dimensions**

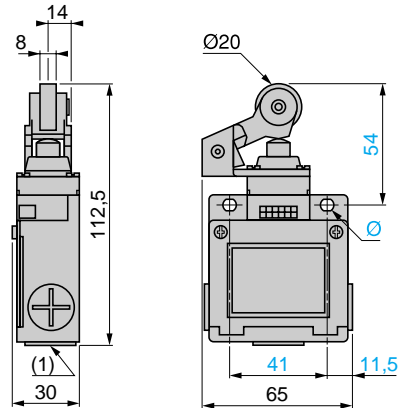
XCK-M●10, ZCK-M● + ZCK-D10



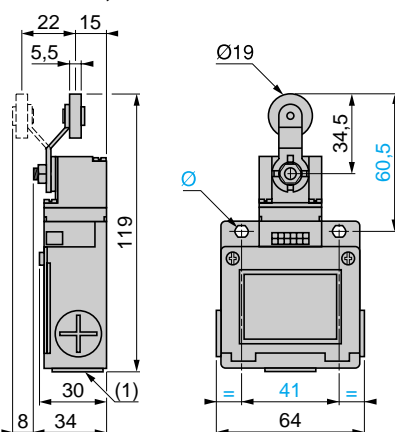
XCK-M●02, ZCK-M● + ZCK-D02



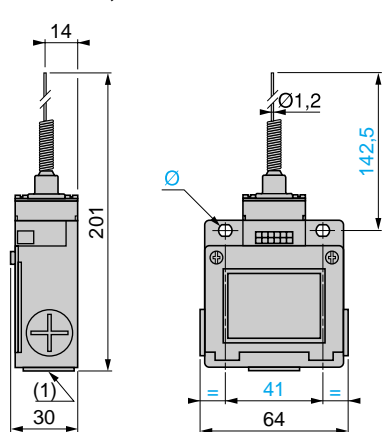
XCK-M●21, ZCK-M● + ZCK-D21



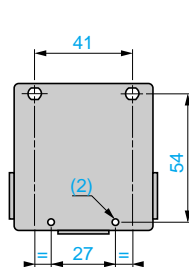
XCK-M●15, ZCK-M● + ZCK-D15



XCK-M●06, ZCK-M● + ZCK-D06



Rear view XCK-M●●, ZCK-M●



(1) 3 cable entries, tapped for n° 11 cable glands

(2) 2 x Ø 4 H 11, depth 10

Ø : 2 elongated holes Ø 5.2 x 6.2