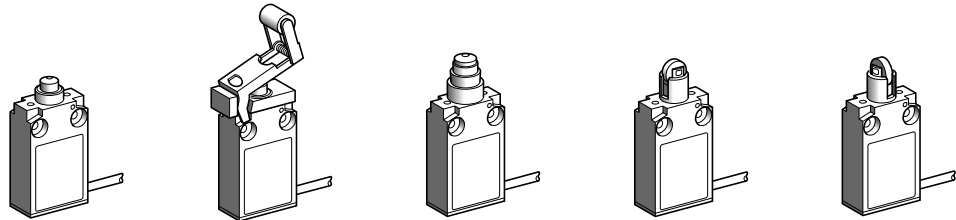


References, characteristics **Limit switches**

Metal, compact, type XCM
Complete switches, pre-cabled

Type of operating head	Plunger, fixing by the body
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Type of operator	Metal end plunger	Retractable roller lever	Steel end plunger with elastomer boot	Steel roller plunger for lateral cam approach	Steel roller plunger for traverse cam approach
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References (⊖ N/C contact with positive opening operation)

Single-pole 1 C/O snap action (1)		XCM-A110	XCM-A110 + XCM-Z24	XCM-A111	XCM-A102	XCM-A103
2-pole 1 N/C + 1 N/O break before make slow break		XCM-B510 ⊖	XCM-B510 + XCM-Z24 ⊖	XCM-B511 ⊖	XCM-B502 ⊖	XCM-B503 ⊖
Weight (kg)		0.240	0.240 + 0.080	0.240	0.245	0.245

Complementary characteristics not shown under General characteristics (page 32200/3)

Switch actuation	On end	By 30° cam	On end	By 30° cam	
Maximum actuation speed	0.5 m/s		0.1 m/s		
Mechanical durability	10 million operating cycles				
Minimum force	for tripping	7.5 N	2.6 N	7.5 N	5 N
	for positive opening	37.5 N	13 N	37.5 N	25 N
Cabling	PVC cable, 5 x 0.75 mm ² , length 1 metre (for other cable lengths and special cables see page 32203/2).				

(1) Also available with gold flashed contacts (see page 32203/2)

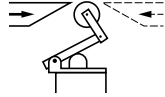
Limit switches

Metal, compact, type XCM
Complete switches, pre-cabled

Setting-up
Type of actuation
XCM-●●10



XCM-●●10 + XCM-Z24



XCM-●●11



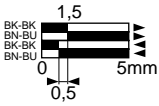
XCM-●●02



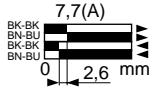
XCM-●●03



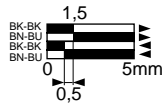
Function diagrams
XCM-A110



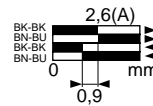
XCM-A110 + XCM-Z24



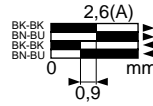
XCM-A111



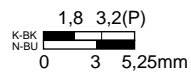
XCM-A102



XCM-A103



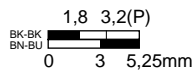
XCM-B510



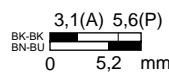
XCM-B510 + XCM-Z24



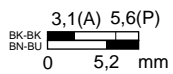
XCM-B511



XCM-B502



XCM-B503



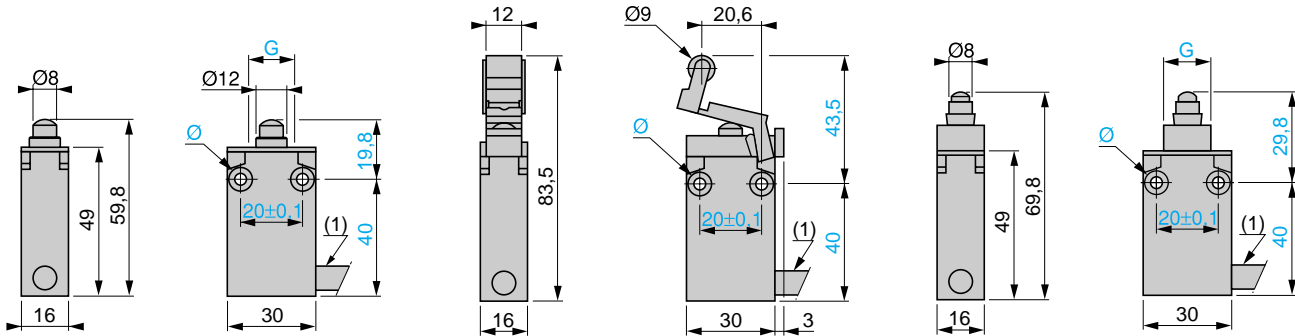
Contact operation
 contact closed
 contact open

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

Dimensions
XCM-●●10

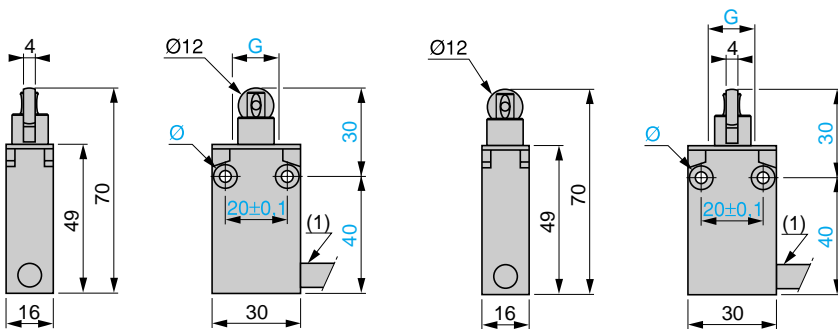
XCM-●●10 + XCM-Z24

XCM-●●11



XCM-●●02

XCM-●●03



Ø : 2 fixing holes Ø 4.3, counterbored Ø 8.2 x 4 mm deep

G : Fixing by upper part of the body : 2 tapped holes M3, on 18 mm centres. Ø 12.5 panel cut-out for passage of operating head.

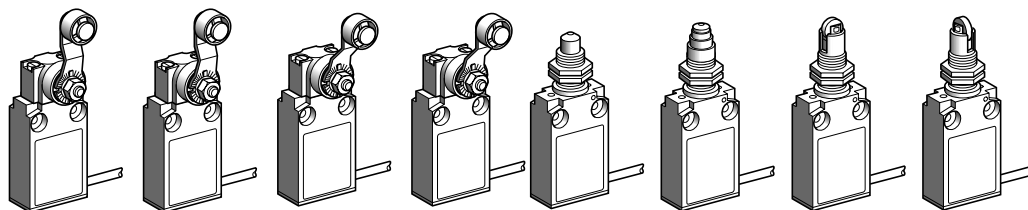
Maximum panel thickness : 5 mm

(1) Pre-cabled, Ø 8 x 1 m length

References, characteristics **Limit switches**

Metal, compact, type XCM
Complete switches, pre-cabled

Type of operating head	Rotary, fixing by the body	Plunger, fixing by the head
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Type of operator	Roller lever, thermoplastic	steel or ball bearing mounted (2)	Offset roller lever (1), thermoplastic	steel or ball bearing mounted (2)	End plunger, metal	End plunger, metal with elastomer boot	Steel roller plunger, lateral cam approach	Steel roller plunger, traverse cam approach
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References (⊖ N/C contact with positive opening operation)

Single-pole 1 C/O snap action (3)		XCM-A115	XCM-A11●	XCM-A125	XCM-A12●	XCM-F110	XCM-F111	XCM-F102	XCM-F103
2-pole 1 N/C + 1 N/O break before make slow break		XCM-B515	XCM-B51●	XCM-B525	XCM-B52●	XCM-G510	XCM-G511	XCM-G502	XCM-G503
Weight (kg)		0.245	0.260	0.245	0.260	0.260	0.260	0.265	0.265

Complementary characteristics not shown under General characteristics (page 32200/3)

Switch actuation	By 30° cam		On end	By 30° cam
Maximum actuation speed	1.5 m/s		0.5 m/s	0.1 m/s
Mechanical durability	10 million operating cycles			
Minimum force or torque	for tripping	0.05 N.m	7.5 N	4.5 N
	for positive opening	0.15 N.m	37.5 N	22 N
Cabling	PVC cable, 5 x 0.75 mm ² , length 1 metre (for other cable lengths and special cables see page 32203/2).			

(1) Lever offset by 40 mm (see page 32201/5).

(2) In the reference replace the ● by 6 for a steel roller lever or by 7 for a ball bearing mounted roller lever.

Example : limit switch with rotary operating head, fixed by the body, with ball bearing mounted roller lever = **XCM-A117**.

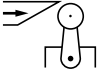
(3) Also available with gold flashed contacts (see page 32203/2).

Limit switches

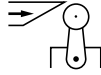
Metal, compact, type XCM
Complete switches, pre-cabled

Setting-up

Type of actuation
XCM-A11●, XCM-B51●



XCM-A12●, XCM-B52●



XCM-●●10, XCM●●11

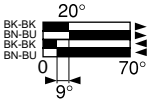


XCM-●●02, XCM-●●03

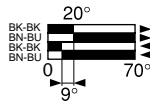


Function diagrams

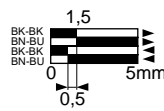
XCM-A11●



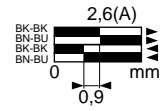
XCM-A12●



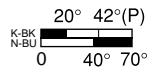
XCM-F110, XCM-F111



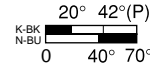
XCM-F102, XCM-F103



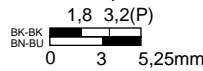
XCM-B51●



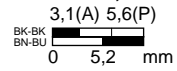
XCM-B52●



XCM-G510, XCM-G511



XCM-G502, XCM-G503



Contact operation
contact closed
contact open

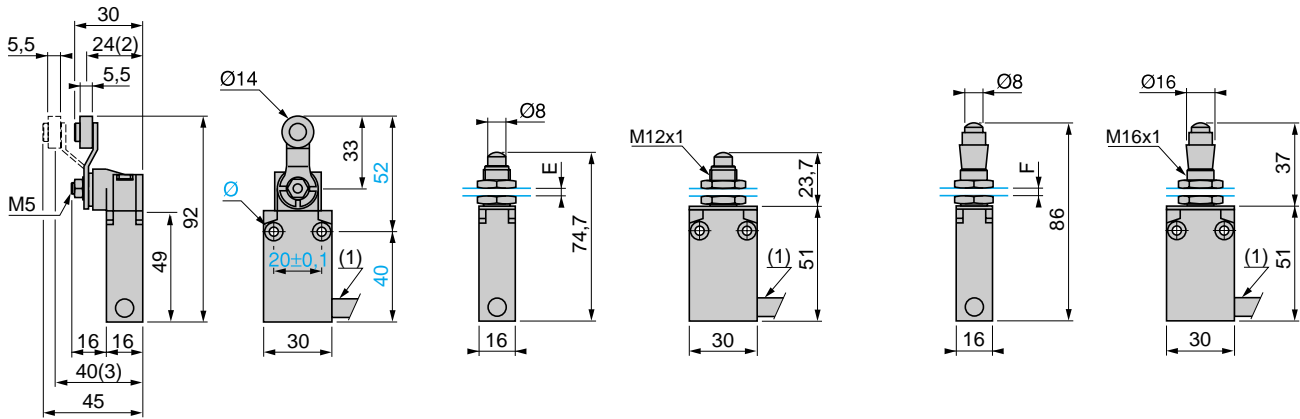
(A) = cam displacement
(P) = positive opening point

Dimensions

XCM-A11●, XCM-A12●
XCM-B51●, XCM-B52●

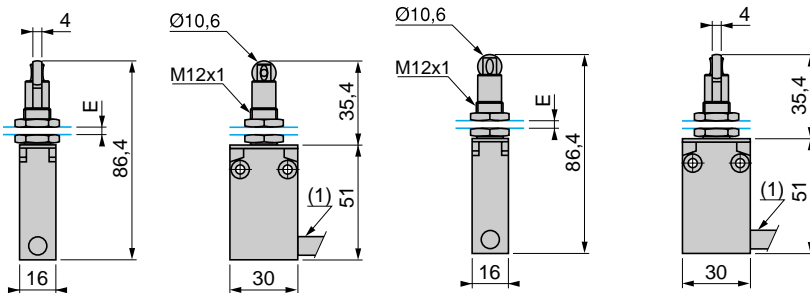
XCM-F110, XCM-G510

XCM-F111, XCM-G511



XCM-F102, XCM-G502

XCM-F103, XCM-G503



Ø : 2 fixing holes Ø 4.3, counterbored Ø 8 x 4 mm deep

E : 8 mm max., panel cut-out Ø 12.5 mm

F : 8 mm max., panel cut-out Ø 16.5 mm

(1) Pre-cabled, Ø 8 x 1 m length

(2) XCM-A11●, XCM-B51●

(3) XCM-A12●, XCM-B52●

Note : nut thickness = 3.5 mm