

General Specifications and Selection

XCM Miniature


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The XCM is a prewired miniature switch designed to meet international standards and requirements. Mounting for the switch meets European requirements. (The switch body has 30 mm mounting hole centers.)

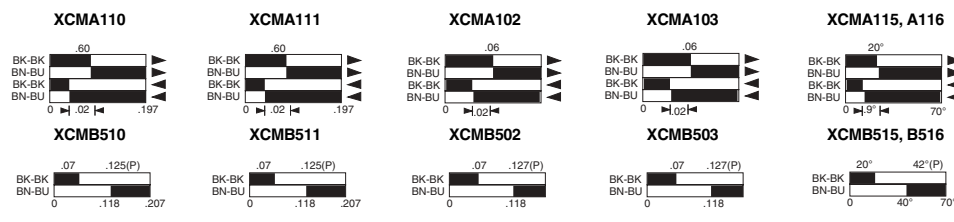
- XCMA is available in standard snap action contacts.
- XCMB has slow-break before make direct opening contacts that meet IEC 947-5-1 requirements for positive opening contacts.



XCMA110

Conforming to Standards	Products	IEC 947-5-1, IEC 337-1, EN 60 947-5-1, NFC 63-140, NFC 63-145 class Y2, VDE 0660-200, UL 508, CSA C22-2 n°14
	Installation	IEC 204-1, EN 60 204-1, NFC 79-130
Approvals		All models DEMKO 6 A-380 V. XCM-B: FI 6 A-400 V. XCMA and XCMB: UL Recognized (File E39281, CNN NKCR2), CSA (File LR44087, Class 321103)
Protective treatment		Standard version: "TH"
Ambient temperature		-13° F to 158° F (-25° C to 70° C) The minimum temperatures listed are based on the absence of freezing moisture or water.
Vibration resistance		XCMA: 5 g. XCMB: 25 g (10 to 500 Hz) conforming to IEC 68-2-6
Shock resistance		25g conforming to IEC 68-2-27
Electric shock protection		Class I conforming to IEC 536 and NFC 20-030
Degree of protection		IP67 conforming to IEC 529; IP675 conforming to NFC 20-010
Repeat accuracy		0.004" (0.01 mm) on the tripping points.
Rated operational characteristics		~ AC-15; A 300 or Ue = 240V, Ie = 3A —DC-13; Q300 or Ue = 250V, Ie = 0.27 A conforming to IEC 947-5-1 Appendix A, EN 60 947-5-1
Rated insulation voltage		Ui = XCM-A: 500V. XCM-B: 400V degree of pollution 3 to IEC 947-5-1, group C to NFC 20-040 and VDE 0110. Ui = 300V conforming to UL 508, CSA C22-2 n°14.
Rated impulse withstand voltage		U imp = 4 kV conforming to IEC 947-1, IEC 664
Resistance across terminals		≤25 mΩ conforming to NFC 93-050 method A or IEC 255-7 category 3
Short-circuit protection		6 A cartridge fuse type gG (gl) conforming to IEC 947-5-1, VDE 0660-200
Cabling		Pre-cabled, 5 x 0.75 mm ² (21 AWG), length 1 meter (pre-cabled in other lengths)

Contact Function Diagrams



Contact operation (A) = cam displacement
 ■ contact closed (P) = positive opening point
 □ contact open

Selection Table

Type of Operating Head		Plunger Type				Lever Type	
Type of Operator		Steel end plunger	Steel end plunger with rubber boot	Steel roller plunger for lateral cam approach	Steel roller plunger for traverse cam approach	Roller lever thermoplastic	Roller lever steel
1 N.C. + N.O. snap action		XCMA110 \$91.	XCMA111 \$96.	XCMA102 \$99.	XCMA103 \$99.	XCMA115 \$131.	XCMA116 \$131.
		XCMA110 \$91.	XCMA111 \$96.	XCMA102 \$99.	XCMA103 \$99.	XCMA115 \$131.	XCMA116 \$131.
1 N.C. + N.O. break before make, slow break		XCMB510 \$96.	XCMB511 \$101.	XCMB502 \$105.	XCMB503 \$105.	XCMB515 \$137.	XCMB516 \$137.
		XCMB510 \$96.	XCMB511 \$101.	XCMB502 \$105.	XCMB503 \$105.	XCMB515 \$137.	XCMB516 \$137.
Minimum Force	For tripping	27 oz	27 oz	14.4 oz	14.4 oz	10.4 in-oz	10.4 in-oz
	For positive opening	63 oz	63 oz	50.4 oz	50.4 oz	20.8 in-oz	20.8 in-oz
Maximum actuation speed		19.6 in/sec	19.6 in/sec	3.9 in/sec	3.9 in/sec	59 in/sec	59 in/sec
Switch actuation		On end	On end	By 30° cam	By 30° cam	By 30° cam	By 30° cam

Additional operator styles available. Consult your local field office for further information.

All devices are supplied with 1 meter of cable as standard. For other cable lengths, insert the cable length, in meters, at the end of the type number (ie: for two meters of cable XCMA110 becomes XCMA1102). Add \$6.30 per additional meter.

File E39281
CCN NKCR2File LR44087
Class 3211-03

For additional information, reference Catalog #9006CT0101.

OSICONCEPT™ Limit Switches
XCMD Modular Miniature
Cross Reference to XCMD From Previous XCMA/B



Cross Reference From Previous XCMA/B To New XCMD

Old XCMA/B	New XCMD	Old XCMA/B	New XCMD	Old XCMA/B	New XCMD	Old XCMA/B	New XCMD
XCMA102	XCMD2102L1	XCMA1037H7	XCMD2103L7	XCMA1155H7	XCMD2115L5	XCMB510	XCMD2510L1
XCMA1022	XCMD2102L2	XCMA103H7	XCMD2103L1	XCMA115H7	XCMD2115L1	XCMB5105	XCMD2510L5
XCMA1022H7	XCMD2102L2	XCMA110	XCMD2110L1	XCMA116	XCMD2116L1	XCMB510H7	XCMD2510L1
XCMA1023	XCMD2102L3	XCMA1102	XCMD2110L2	XCMA1163H7	XCMD2116L3	XCMB511H7	XCMD2511L1
XCMA1023H7	XCMD2102L3	XCMA1102	XCMD2110L2	XCMA116H7	XCMD2116L1	XCMB515H7	XCMD2515L1
XCMA1025	XCMD2102L5	XCMA1102	XCMD2110L2	XCMA117H7	XCMD2117L1	XCMB516	XCMD2516L1
XCMA1025H7	XCMD2102L5	XCMA1103	XCMD2110L3	XCMA125H7	XCMD2125L1	XCMF102	XCMD21F2L1
XCMA1025TQ	XCMD2102L5TQ	XCMA1103H7	XCMD2110L3	XCMB502	XCMD2502L1	XCMF102H7	XCMD21F2L1
XCMA1026H7	XCMD2102L7	XCMA1105	XCMD2110L5	XCMB502	XCMD2502L1	XCMF1032H7	XCMD21F2L2
XCMA1027H7	XCMD2102L7	XCMA110H7	XCMD2110L1	XCMB5022	XCMD2502L2	XCMB516	XCMD21F0L1
XCMA1028H7	XCMD2102L10	XCMA110T200	XCMD2110C12	XCMB5022H7	XCMD2502L2	XCMF1102H7	XCMD21F0L2
XCMA102H7	XCMD2102L1	XCMA111	XCMD2111L1	XCMB5023	XCMD2502L3	XCMF1105	XCMD21F0L5
XCMA103	XCMD2103L1 ▲	XCMA111H7	XCMD2111L1	XCMB5023H7	XCMD2502L3	XCMF110H7	XCMD21F0L1
XCMA1032	XCMD2103L2	XCMA115	XCMD2115L1	XCMB5024H7	XCMB2502L5	XCMG502	XCMD25F2L1
XCMA1032H7	XCMD2103L2	XCMA1152	XCMD2115L2	XCMB5025H7	XCMD2502L5	XCMG503H7	XCMD25F3L1
XCMA1033	XCMD2103L3	XCMA1152	XCMD2115L2	XCMB502H7	XCMD2502L1		
XCMA1033H7	XCMD2103L3	XCMA1152H7	XCMD2115L2	XCMB503	XCMD2503L1		

XCMD Components – Catalog Number Selection

XCMD Miniature Switch	XCMD Components				XCMD Miniature Switch	XCMD Components			
	Body with Contacts	Head	Lever	Corded Plug-in Base Only		Body with Contacts	Head	Lever	Corded Plug-in Base Only
XCMD2102L1	ZCMD21	ZCE02		ZCMC21L1	XCMD2116L3	ZCMD21	ZCE01	ZCY16	ZCMC21L3
XCMD2102L10	ZCMD21	ZCE02		ZCMC21L10	XCMD2117L1	ZCMD21	ZCE01	ZCY17	ZCMC21L1
XCMD2102L2	ZCMD21	ZCE02		ZCMC21L2	XCMD2125L1	ZCMD21	ZCE01	ZCY25	ZCMC21L1
XCMD2102L3	ZCMD21	ZCE02		ZCMC21L3	XCMD21F0L1	ZCMD21	ZCEF0		ZCMC21L1
XCMD2102L3TQ	ZCMD21	ZCE02		ZCMC21L3TQ	XCMD21F0L2	ZCMD21	ZCEF0		ZCMC21L2
XCMD2102L5	ZCMD21	ZCE02		ZCMC21L5	XCMD21F0L5	ZCMD21	ZCEF0		ZCMC21L5
XCMD2102L5TQ	ZCMD21	ZCE02		ZCMC21L5TQ	XCMD21F2L1	ZCMD21	ZCEF2		ZCMC21L1
XCMD2102L6	ZCMD21	ZCE02		ZCMC21L5	XCMD21F2L2	ZCMD21	ZCEF2		ZCMC21L2
XCMD2102L7	ZCMD21	ZCE02		ZCMC21L7	XCMD2502L1	ZCMD25	ZCE02		ZCMC25L1
XCMD2102L7	ZCMD21	ZCE02		ZCMC21L7	XCMD2502L1	ZCMD25	ZCE02		ZCMC25L1
XCMD2103L1 ▲	ZCMD21	ZCE02		ZCMC21L1	XCMD2502L2	ZCMD25	ZCE02		ZCMC25L2
XCMD2103L2	ZCMD21	ZCE02		ZCMC21L2	XCMD2502L3	ZCMD25	ZCE02		ZCMC25L3
XCMD2103L3	ZCMD21	ZCE02		ZCMC21L3	XCMD2502L5	ZCMD25	ZCE02		ZCMC25L5
XCMD2103L7	ZCMD21	ZCE02		ZCMC21L7	XCMD2503L1	ZCMD25	ZCE02		ZCMC25L1
XCMD2110C12	ZCMD21	ZCE10		ZCMC21C12	XCMD2510L1	ZCMD25	ZCE10		ZCMC25L1
XCMD2110L1	ZCMD21	ZCE10		ZCMC21L1	XCMD2510L5	ZCMD25	ZCE10		ZCMC25L5
XCMD2110L2	ZCMD21	ZCE10		ZCMC21L2	XCMD2511L1	ZCMD25	ZCE11		ZCMC25L1
XCMD2110L3	ZCMD21	ZCE10		ZCMC21L3	XCMD2515L1	ZCMD25	ZCE01	ZCY15	ZCMC25L1
XCMD2110L5	ZCMD21	ZCE10		ZCMC21L5	XCMD2516L1	ZCMD25	ZCE05	ZCY16	ZCMC25L1
XCMD2111L1	ZCMD21	ZCE11		ZCMC21L1	XCMD25F2L1	ZCMD25	ZCEF2		ZCMC25L1
XCMD2115L1	ZCMD21	ZCE01	ZCY15	ZCMC21L1	XCMD25F2L1	ZCMD25	ZCEF2		ZCMC25L1
XCMD2115L2	ZCMD21	ZCE01	ZCY15	ZCMC21L2					
XCMD2115L5	ZCMD21	ZCE01	ZCY15	ZCMC21L5					

▲ XCMD2103L● is not a catalog item. Use the standard XCMD2102L● and rotate the head to the cross roller position.