

XC Limit switches
Miniature, fixing by the body

Miniature, fixing
by the head



Limit switch type	XCMD metal, pre-cabled				XCMD metal, pre-cabled							
With head for movement	Linear (plunger)				Rotary (lever) Linear (plunger)							
Conformity	Directive ATEX 2014/34/UE, EN/IEC 60079-0, EN/IEC 60079-31				Directive ATEX 2014/34/UE, EN/IEC 60079-0, EN/IEC 60079-31							
Zone D (dust)	21 - 22				21 - 22							
Marking	Ex tb III C T85°C Db IP66				Ex tb III C T85°C Db IP66							
Type of operator	Metal end plunger	Metal end plunger with elastomer boot	Steel roller plunger	Retractable steel roller lever plunger	Steel roller lever	Thermoplastic roller lever	Roller lever with ball bearing mounted roller	Variable length Thermoplastic Roller lever	M12 with Metal end plunger	M16 with Metal end plunger with elastomer boot	M12 with steel roller plunger	
Mechanical durability (millions of operating cycles)	10				10							
Actuation speed	0,5 m/s				1,5 m/s 0,5 m/s 0,1 m/s							
Switches conforming to standard IEC947-5-1 section 3	⤵				⤵							
Temperature range	– 20...+ 60°C				– 20...+ 60°C							
Degree of protection (conforming to IEC 60529)	IP66 and IP67				IP66 and IP67							
Rated operational characteristics (conforming to EN/IEC 60947-5-1)	AC15; C300 (Ue= 240 V, Ie= 0,75 A)/DC13; R300 (Ue= 250 V, Ie= 0,1 A)				AC15; C300 (Ue= 240 V, Ie= 0,75 A)/DC13; R300 (Ue= 250 V, Ie= 0,1 A)							
Short-circuit protection	By 6 A cartridge fuse type gG (gl)				By 6 A cartridge fuse type gG (gl)							
Cable entry	Pre-cabled, adjustable direction, length = 5 m				Pre-cabled, adjustable direction, length = 5 m							
Fixing centres	20 mm				20 mm M12 x 1 M16 x 1 M12 x 1							
Body dimensions, W x D x H	30 x 16 x 50 mm				30 x 16 x 50 mm							
References	2NC+2NO snap action	XCMD4110L5EX	XCMD4111L5EX	XCMD4102L5EX	XCMD4124L5EX	XCMD4116L5EX	XCMD4115L5EX	XCMD4117L5EX	XCMD4145L5EX	XCMD41F0L5EX	XCMD41G1L5EX	XCMD41F2L5EX

XC Limit switches
Compact, fixing by the body

Compact, fixing
by the head



Limit switch type		XCKD metal conforming to standard EN 500047					XCKD metal conforming to standard EN 500047											
With head for movement		Linear (plunger)					Linear (plunger)			Rotary (lever)		Multi-directional		Linear (plunger)				
Conformity		Directive ATEX 2014/34/UE, EN/IEC/UL 60079-0, EN/IEC/UL 60079-31					Directive ATEX 2014/34/UE, EN/IEC/UL 60079-0, EN/IEC/UL 60079-31											
Zone D (dust)		21 - 22					21 - 22											
Marking		Ex tb III C T85°C Db IP66 / Zn21 AEx tb IIIC T85°C / Zn21 Ex tb IIIC T85°C Db					Ex tb III C T85°C Db IP66 / Zn21 AEx tb IIIC T85°C / Zn21 Ex tb IIIC T85°C Db											
Type of operator		Metal end plunger	Metal end plunger with elastomer boot	Steel roller plunger	Thermoplastic roller lever plunger, horiz. actuation in 1 direct.	Thermoplastic roller lever plunger, vert. actuation in 1 direct.	Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 dir.	Thermoplastic roller lever	Steel roller thermoplastic Ø 50 mm	Variable length thermoplastic roller lever	Variable length thermoplastic roller lever, Ø 50 mm	“Cat’s whisker”	M18 Metal end plunger	M18 with steel roller plunger				
Mechanical durability (millions of operating cycles)		15		10	15	15	15	10				5	10					
Actuation speed		0,5 m/s			1 m/s	1 m/s	1 m/s	1,5 m/s				1 m/s	0,5 m/s					
Switches conforming to standard IEC947-5-1 section 3		⤵					⤴					—	⤵					
Temperature range		– 20...+ 60°C					– 20...+ 60°C											
Degree of protection (conforming to IEC 60529)		IP66 and IP67					IP66 and IP67											
Rated operational characteristics (conforming to EN/IEC 60947-5-1)		AC15; B300 (Ue= 240 V, Ie= 1,5 A)/DC13; R300 (Ue= 250 V, Ie= 0,1 A)					AC15; B300 (Ue= 240 V, Ie= 1,5 A)/DC13; R300 (Ue= 250 V, Ie= 0,1 A)											
Short-circuit protection		By 6 A cartridge fuse type gG (gl)					By 6 A cartridge fuse type gG (gl)											
Cable entry		1 entry fitted with ISO M16 cable gland for ATEX IECEx version, with ½ NPT for IECEx/cULus version (without cable gland)					1 entry fitted with ISO M16 cable gland for ATEX IECEx version, with ½ NPT for IECEx/cULus version (without cable gland)											
Fixing centres		20 mm												M18 x 1				
Body dimensions, W x D x H		31 x 30 x 65 mm					30 x 16 x 50 mm											
References		2NC+1NO snap action			⁽¹⁾	XCKD3910P16EX	XCKD3911P16EX	XCKD3902P16EX	XCKD3921P16EX	XCKD3927P16EX	XCKD3928P16EX	XCKD3918P16EX	XCKD3939P16EX	XCKD3945P16EX	XCKD3949P16EX	XCKD3906P16EX	XCKD39H0P16EX	XCKD39H2P16EX
	2NC+1NO snap action			⁽²⁾	XCKD3910N12EX	XCKD3911N12EX	XCKD3902N12EX	XCKD3921N12EX	XCKD3927N12EX	XCKD3928N12EX	XCKD3918N12EX	XCKD3939N12EX	XCKD3945N12EX	XCKD3949N12EX	XCKD3906N12EX	XCKD39H0N12EX	XCKD39H2N12EX	

(1) with IECEx/ATEX certified cable gland
(2) if the sensor is not connected by a pipe, a certified cable gland must be added (not provided)

Other characteristics: please refer to the “Detection for OsiSense automation solutions” catalog”