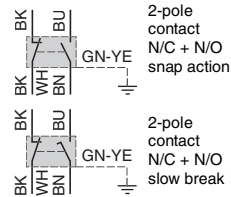


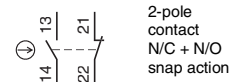
# Osiswitch Limit switches\_ Complete switches *(adaptable sub-assemblies, see pages 26-27)*

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XCMD, XCMN



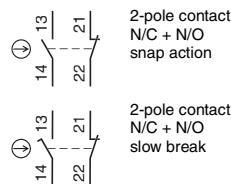
XCKT



### Miniature type XCMD metal, precabled

Type of operator	metal end plunger	steel roller plunger	plastic roller lever	variable length plastic roller lever	M12 head metal end plunger	
Actuation speed (in m/s)	0.5	0.5	1.5	1.5	0.5	
Switches conforming to standard IEC 60 947-5-1 section 3	⊕	⊕	⊕	⊕	⊕	
Degree of protection conforming to IEC 60 529	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	
Rated operational characteristics	~ AC 15; B 300 (Ue = 240 V, Ie = 1.5 A) / ... DC 13; R 300 (Ue = 250 V, Ie = 0.1 A)					
Cable entry	pre-cabled, adjustable direction, length = 1 m (other lengths available on request)					
Mounting holes (mm)	20	20	20	20	20	
Body dimensions (mm) W x D x H	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	
Complete switch	2-pole, N/C + N/O snap action	<b>XCMD2110L1</b>	<b>XCMD2102L1</b>	<b>XCMD2115L1</b>	<b>XCMD2145L1</b>	<b>XCMD21F0L1</b>
	2-pole, N/C + N/O break before make, slow break	<b>XCMD2510L1</b>	<b>XCMD2502L1</b>	<b>XCMD2515L1</b>	<b>XCMD2545L1</b>	<b>XCMD25F0L1</b>

XCKP



### Compact type XCKD metal and XCKP plastic conforming to standard EN 50047

Type of operator	metal end plunger	steel roller plunger	plastic roller lever horizontal actuation	M18 head metal end plunger	M18 head steel roller plunger	
Actuation speed (in m/s)	0.5	0.5	1	0.5		
Switches conforming to standard IEC 60 947-5-1 section 3	⊕	⊕	⊕	⊕	⊕	
Degree of protection conforming to IEC 60 529	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	
Rated operational characteristics	~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / ... DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)					
Cable entry	1 tapped entry for 1/2" NPT cable gland					
Mounting holes (mm)	20	20	20	M18 x 1	M18 x 1	
Body dimensions (mm) W x D x H	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	
<b>Metal products</b>						
Complete switch	2-pole, N/C + N/O snap action	<b>XCKD2110N12</b>	<b>XCKD2102N12</b>	<b>XCKD2121N12</b>	<b>XCKD21H0N12</b>	<b>XCKD21H2N12</b>
	2-pole, N/C + N/O break before make, slow break	<b>XCKD2510N12</b>	<b>XCKD2502N12</b>	<b>XCKD2521N12</b>	<b>XCKD25H0N12</b>	<b>XCKD25H2N12</b>
<b>Plastic, double insulated products</b>						
Complete switch	2-pole, N/C + N/O snap action	<b>XCKP2110N12</b>	<b>XCKP2102N12</b>	<b>XCKP2121N12</b>	<b>XCKP21H0N12</b>	<b>XCKP21H2N12</b>
	2-pole, N/C + N/O break before make, slow break	<b>XCKP2510N12</b>	<b>XCKP2502N12</b>	<b>XCKP2521N12</b>	<b>XCKP25H0N12</b>	<b>XCKP25H2N12</b>

⊕ Indicates positive opening contacts



**Type XCKT compact, plastic, 2 cable entries**

M12 head steel roller plunger	cat whisker	End plunger	metal end plunger	metal roller plunger	plastic roller lever	plastic roller lever, horizontal actuation	cat whisker
0.1	1	0.5	0.5	0.5	1.5	1	1
⊖	—	⊖	⊖	⊖	⊖	⊖	—
IP66 and IP67	IP66 and IP67	IP65	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67
~ AC 15; B 300 (Ue = 240 V, Ie = 1.5 A) / ... DC 13; R 300 (Ue = 250 V, Ie = 0.1 A)			~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / ... DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)				
pre-cabled, adjustable direction, length = 1 m (other lengths available on request)		pre-cabled, length = 1 m	2 tapped entries for 1/2" NPT cable gland				
20	20	20	20 or 40	20 or 40	20 or 40	20 or 40	20 or 40
30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	60 x 30 x 61	60 x 30 x 61	60 x 30 x 61	60 x 30 x 61	60 x 30 x 61
XCMD21F2L1	XCMD2106L1	XCMN2110L1 (1)	XCKT2110N12	XCKT2102N12	XCKT2118N12	XCKT2121N12	XCKT2106N12
XCMD25F2L1	XCMD2506L1	—	—	—	—	—	—



**With manual reset XCDR and XCPR**

plastic roller lever	variable length plastic roller lever	rubber roller lever Ø 50 mm	cat whisker	metal end plunger	steel roller lever	plastic roller lever horizontal actuation	plastic roller lever vertical actuation	plastic roller lever
1.5	1.5	1.5	1	0.5	0.5	1	1	1.5
⊖	⊖	⊖	—	⊖	⊖	⊖	⊖	⊖
IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67
~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / ... DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)				~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / ... DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)				
1 tapped entry for 1/2" NPT cable gland				1 tapped entry for 1/2" NPT cable gland				
20	20	20	20	20	20	20	20	20
30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 73	30 x 30 x 95	30 x 30 x 95	30 x 30 x 95	30 x 30 x 95	30 x 30 x 95
XCKD2118N12	XCKD2145N12	XCKD2139N12	XCKD2106N12	XCDR2110N12	XCDR2102N12	XCDR2121N12	XCDR2127N12	XCDR2118N12
XCKD2518N12	XCKD2545N12	XCKD2539N12	XCKD2506N12	XCDR2510N12	XCDR2502N12	XCDR2521N12	XCDR2527N12	XCDR2518N12
XCKP2118N12	XCKP2145N12	XCKP2139N12	XCKP2106N12	XCPR2110N12	XCPR2102N12	XCPR2121N12	XCPR2127N12	XCPR2118N12
XCKP2518N12	XCKP2545N12	XCKP2539N12	XCKP2506N12	XCPR2510N12	XCPR2502N12	XCPR2521N12	XCPR2527N12	XCPR2518N12

(1) XCMN switch is not modular

## Osiswitch *Limit switches\_ Adaptable sub-assemblies for miniature and compact switches*

### Common heads for miniature and compact bodies

Metal plunger and multi-directional heads						
Description	metal end plunger	metal end plunger with elastomer protective boot	steel roller plunger	retractable steel roller lever	plastic roller lever, horizontal actuation	plastic roller lever, vertical actuation
Reference	ZCE10	ZCE11	ZCE02	ZCE24 (2)	ZCE21	ZCE27
Metal rotary heads and levers						
Description	rotary head without lever, spring return, for actuation from RH or LH side	plastic roller lever, track: 24/31 mm (ZCMD)	steel roller lever, track: 24/31 mm (ZCMD)	plastic roller lever, track: 16/39 mm (ZCMD)	steel roller lever, track: 16/39 mm (ZCMD)	plastic, roller lever, track: 20/36 mm (ZCMD)
Reference	ZCE01	ZCY15 (2)	ZCY16 (2)	ZCY25 (2)	ZCY26 (2)	ZCY18 (1)
(1) Recommended for use with body ZCD... / ZCP... / ZCT...			(2) Recommended for use with body: ZCMD...			

### Body/contact assemblies

Miniature						
Type of contact						
Reference of metal body	ZCMD21	ZCMD39	ZCMD25	ZCMD37	ZCMD21C12	ZCMD21M12
Reference of plastic body	-	-	-	-	-	-

### Connection of miniature body/contact assemblies

Specific pre-cabled connection components					Option: M12 pre-wired connector, L = 2 m	
L = 1 m	ZCMC21L1	ZCMC39L1	ZCMC25L1	ZCMC37L1		
L = 2 m	ZCMC21L2	ZCMC39L2	ZCMC25L2	ZCMC37L2		
L = 5 m	ZCMC21L5	ZCMC39L5	ZCMC25L5	ZCMC37L5		

M12 head metal plunger	M18 head metal plunger	M12 head steel roller plunger	M18 head steel roller plunger	spring lever	spring lever with plastic end	cat whisker
<b>ZCEF0 (2)</b>	<b>ZCEH0 (1)</b>	<b>ZCEF2 (1)</b>	<b>ZCEH2 (1)</b>	<b>ZCE08</b>	<b>ZCE07</b>	<b>ZCE06</b>
steel roller lever, for track: 20/36 mm (ZCMD) 24/40 mm (ZCD/P/T)	ceramic roller lever	variable length plastic roller lever	round, glass fiber rod lever Ø 3 mm L = 125 mm	metal spring lever	plastic roller lever Ø 50 mm	adjustable plastic roller lever Ø 50 mm
<b>ZCY19 (1)</b>	<b>ZCY22</b>	<b>ZCY45</b>	<b>ZCY55</b>	<b>ZCY91</b>	<b>ZCY39</b>	<b>ZCY49</b>

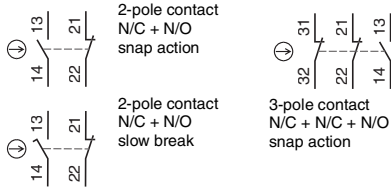
<b>Compact</b>							
2-pole N/C + N/O Snap action	3-pole N/C + N/C + N/O Snap action	2-pole N/C + N/O Slow break	3-pole N/C + N/C + N/O Slow break	2-pole N/C + N/O Snap action	2-pole N/C + N/O Snap action	2-pole N/C + N/O Snap action	2-pole N/C + N/O Slow break
<b>ZCD21</b>	<b>ZCD39</b>	<b>ZCD25</b>	<b>ZCD37</b>	<b>ZCD21M12</b>	-	-	-
<b>ZCP21</b>	<b>ZCP39</b>	<b>ZCP25</b>	<b>ZCP37</b>	-	<b>ZCP21M12</b>	<b>ZCT21P16</b>	<b>ZCT25P16</b>

## Connection of compact body/contact assemblies

Interchangeable cable gland							Option: M12 pre-wired connector, L = 2 m			ZCT PG 11 cable gland versions: replace suffix P16 with G11 Example: ZCT21G16 becomes ZCT21G11
Description	Outlet for ISO M16 gland	Outlet for ISO M20 gland	Outlet for Pg 11 gland	Outlet for Pg 13.5 gland	Outlet for 1/2" gland	Outlet for PF 1/2" gland				ZCT 1/2" NPT versions: replace suffix P16 with N12 (adaptor). Example: ZCT21P16 becomes ZCT21N12
Metal	<b>ZCPEP16</b>	<b>ZCPEP20</b>	<b>ZCPEG11</b>	<b>ZCPEG13</b>	<b>ZCPEN12</b>	<b>ZCPEF12</b>				
Plastic	<b>ZCDEP16</b>	<b>ZCDEP20</b>	<b>ZCDEG11</b>	<b>ZCDEG13</b>	<b>ZCDEN12</b>	<b>ZCDEF12</b>	<b>XSZCD1501Y</b>	<b>XSZCD101Y</b>		

## Osiswitch *Limit switches\_ Standard*

XCKJ, XCKS, XCKM



### Type XCKJ metal, fixed body, conforming to standard EN 50041

Type of operator	metal end plunger	steel roller plunger	plastic roller lever	variable length plastic roller lever	round rod lever Ø 6 mm polyamide / L = 200 mm	
Actuation speed (in m/s)	0.5	1	1.5	1.5	1.5	
Degree of protection conforming to IEC 60 529	IP667	IP667	IP667	IP667	IP667	
Rated operational characteristics	~ AC 15; A 300 (Ue = 240 V, Ie = 3 A) / --- DC 13; Q 300 (Ue = 250 V, Ie = 0.27 A)					
Cable entry (1)	1 tapped entry for 1/2" NPT cable gland					
Mounting holes (mm)	30 x 60	30 x 60	30 x 60	30 x 60	30 x 60	
Body dimensions (mm) W x D x H	40 x 44 x 77	30 x 16 x 59	30 x 16 x 59	30 x 16 x 59	40 x 44 x 77	
Complete switch	2-pole, N/C + N/O snap action	<b>XCKJ161</b> ↻	<b>XCKJ167</b> ↻	<b>XCKJ10511</b> ↻	<b>XCKJ10541</b> ↻	<b>XCKJ10559</b> ↻
	2-pole, N/C + N/O break before make, slow break	<b>XCKJ561</b> ↻	<b>XCKJ567</b> ↻	<b>XCKJ50511</b> ↻	<b>XCKJ50541</b> ↻	<b>XCKJ50559</b> ↻
Body	2-pole N/C + N/O snap action	<b>ZCKJ1</b> ↻	<b>ZCKJ1</b> ↻	<b>ZCKJ1</b> ↻	<b>ZCKJ1</b> ↻	<b>ZCKJ1</b> ↻
	2-pole N/C + N/O break before make, slow break	<b>ZCKJ5</b> ↻	<b>ZCKJ5</b> ↻	<b>ZCKJ5</b> ↻	<b>ZCKJ5</b> ↻	<b>ZCKJ5</b> ↻
	3-pole N/C + N/C + N/O snap action	<b>ZCKJD39</b> ↻	<b>ZCKJD39</b> ↻	<b>ZCKJD39</b> ↻	<b>ZCKJD39</b> ↻	<b>ZCKJD39</b> ↻
Associated head (including operator)	<b>ZCKE61</b> ↻	<b>ZCKE67</b> ↻	<b>ZCK05</b> ↻	<b>ZCKE05</b> ↻	<b>ZCKE05</b> ↻	
Operating lever for rotary heads	-	-	<b>ZCKY11</b> ↻	<b>ZCKY41</b> ↻	<b>ZCKY59</b> ↻	

↻ Indicates positive opening contacts