

Limit switches

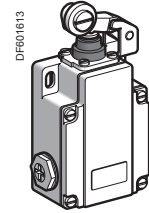
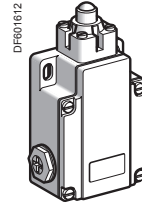
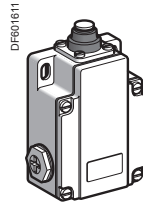
OsiSense XC Special

For material handling applications, type XC1AC

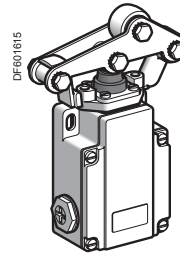
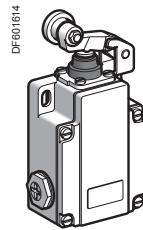
1

■ XC1AC
with slow break contacts

□ With head for linear movement (plunger)



Page 1/170



Page 1/170

Limit switches



OsiSense XC Special

For material handling applications, type XC1AC

Environment characteristics

Conformity to standards		IEC/EN 60947-5-1, IEC 60337-1, VDE 0660-200, CSA C22-2 n° 14
Product certifications	Special version	CSA 600 V (ac) HD
Protective treatment	Version	Standard: "TC". Special: "TH"
Ambient air temperature	For operation	- 25...+ 70°C
	For storage	- 40...+ 70°C
Operating position		All positions
Vibration resistance		9 gn (10...500 Hz) conforming to IEC 60068-2-6
Shock resistance		95 gn (11 ms) conforming to IEC 60068-2-27
Electric shock protection		Class I conforming to IEC 60536 and NF C 20-030
Degree of protection		IP 65 conforming to IEC 60529 and NF C 20-010
Mechanical durability		10 million operating cycles
Cable entry		3 tapped entries for n° 13 cable gland

Contact block characteristics

Conventional thermal current		10 A																
Rated insulation voltage	Slow break contact blocks	500 V ~ and 600 V ⋮ conforming to IEC 60947-5-1, NF C 20-040 ~ and 600 V ⋮ conforming to CSA C22-2 n° 14																
Resistance across terminals		≤ 8 mΩ																
Minimum tripping force		XC1AC1●1 : 33 N, XC1AC1●6 : 23 N, XC1AC1●7 : 29 N																
Terminal referencing		Conforming to CENELEC EN 50013																
Short-circuit protection		10 A cartridge fuse type gG (gl)																
Electrical durability		<ul style="list-style-type: none"> ■ Conforming to IEC 60947-5-1 Appendix C ■ Utilisation categories AC-15 and DC-13 ■ Maximum operating rate: 3600 operating cycles/hour ■ Load factor: 0.5 																
		Slow break contact blocks																
	AC supply 50/60 Hz ~  inductive circuit	<table border="1"> <thead> <tr> <th colspan="4">Power broken in VA</th> </tr> <tr> <th>Voltage V</th> <th>48</th> <th>110</th> <th>230</th> </tr> </thead> <tbody> <tr> <td>For 1 million operating cycles</td> <td>450</td> <td>900</td> <td>1900</td> </tr> <tr> <td>For 3 million operating cycles</td> <td>170</td> <td>350</td> <td>430</td> </tr> </tbody> </table>	Power broken in VA				Voltage V	48	110	230	For 1 million operating cycles	450	900	1900	For 3 million operating cycles	170	350	430
Power broken in VA																		
Voltage V	48	110	230															
For 1 million operating cycles	450	900	1900															
For 3 million operating cycles	170	350	430															
	DC supply ⋮  inductive circuit	<table border="1"> <thead> <tr> <th colspan="4">Power broken in W</th> </tr> <tr> <th>Voltage V</th> <th>48</th> <th>110</th> <th>230</th> </tr> </thead> <tbody> <tr> <td>For 1 million operating cycles</td> <td>100</td> <td>100</td> <td>95</td> </tr> <tr> <td>For 3 million operating cycles</td> <td>35</td> <td>40</td> <td>33</td> </tr> </tbody> </table>	Power broken in W				Voltage V	48	110	230	For 1 million operating cycles	100	100	95	For 3 million operating cycles	35	40	33
Power broken in W																		
Voltage V	48	110	230															
For 1 million operating cycles	100	100	95															
For 3 million operating cycles	35	40	33															


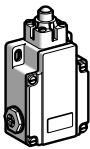
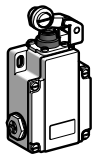
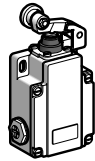
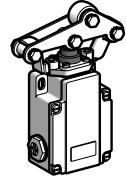
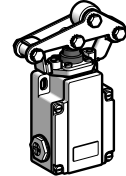
Limit switches


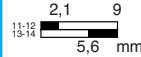

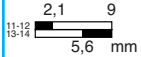

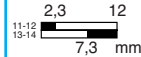

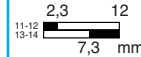

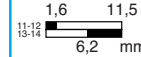

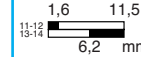

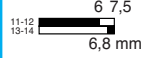

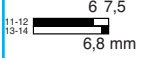

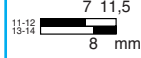

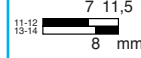

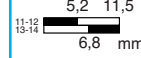

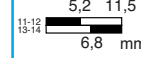

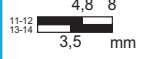

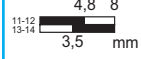

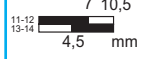

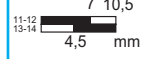

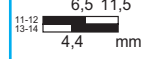

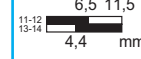





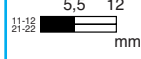

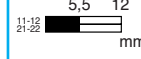





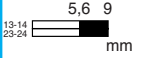

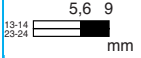





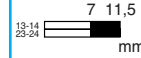

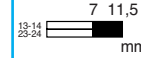

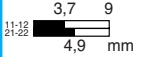

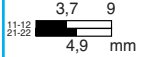

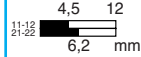

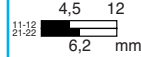

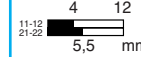

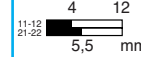

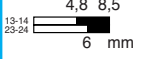

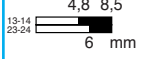

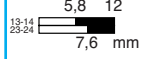

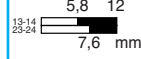

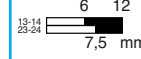

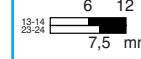
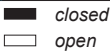
OsiSense XC Special


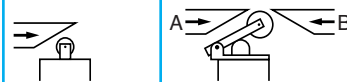
For material handling applications, type XC1AC

Complete switches with slow break contacts

1

Type of head	Plunger					
						
Type of operator	End plunger	End ball bearing plunger	Roller lever plunger	Offset roller lever plunger	Reinforced roller lever plunger	Needle bearing mounted roller lever plunger

References of complete switches						
Single-pole CO slow break ZC1AZ11	 XC1AC111 	 XC1AC115 	 XC1AC116 	 XC1AC118 	 XC1AC117 	 XC1AC119 
2-pole NC + NO break before make, slow break ZC1AZ12	 XC1AC121 	 XC1AC125 	 XC1AC126 	 XC1AC128 	 XC1AC127 	 XC1AC129 
2-pole NO + NC make before break ZC1AZ13	 XC1AC131 	 XC1AC135 	 XC1AC136 	 XC1AC138 	 XC1AC137 	 XC1AC139 
2-pole NC + NC simultaneous, slow break ZC1AZ14	 XC1AC141 	 XC1AC145 	 XC1AC146 	 XC1AC148 	 XC1AC147 	 XC1AC149 
2-pole NO + NO simultaneous, slow break ZC1AZ15	 XC1AC151 	 XC1AC155 	 XC1AC156 	 XC1AC158 	 XC1AC157 	 XC1AC159 
2-pole NC + NC staggered, slow break ZC1AZ16	 XC1AC161 	 XC1AC165 	 XC1AC166 	 XC1AC168 	 XC1AC167 	 XC1AC169 
2-pole NO + NO staggered, slow break ZC1AZ17	 XC1AC171 	 XC1AC175 	 XC1AC176 	 XC1AC178 	 XC1AC177 	 XC1AC179 
Weight (kg)	0.530	0.530	0.595	0.595	0.870	0.870
Contact operation						

Complementary characteristics		
Switch actuation	On end	By 30° cam
Type of actuation		
Maximum actuation speed	0.5 m/s	1 m/s (direction A), 0.5 m/s (direction B) (1)
Cable entry	3 tapped entries for n° 13 (DIN Pg 13.5) cable gland, clamping capacity 9 to 12 mm (2 entries fitted with blanking plug)	
Connection	Screw terminals. Clamping capacity: min. 1 x 0.5 mm ² , max. 1 x 2.5 mm ²	

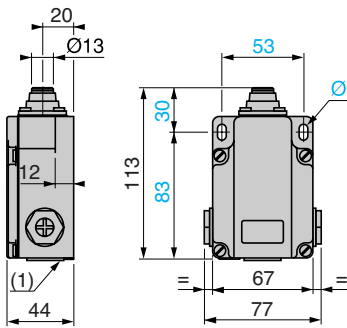
(1) For a 45° cam the maximum actuation speed becomes 0.5 m/s and for a 15° cam, 1 m/s.

Limit switches

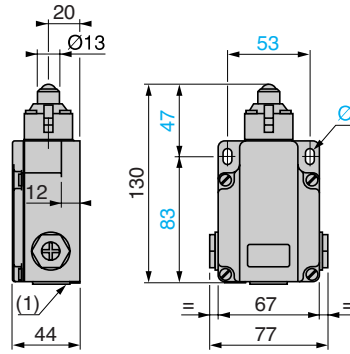
OsiSense XC Special

For material handling applications, type XC1AC
Complete switches with slow break contacts

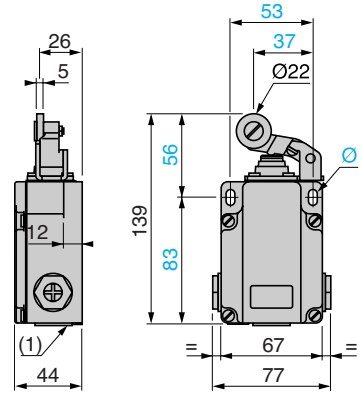
XC1AC1●1



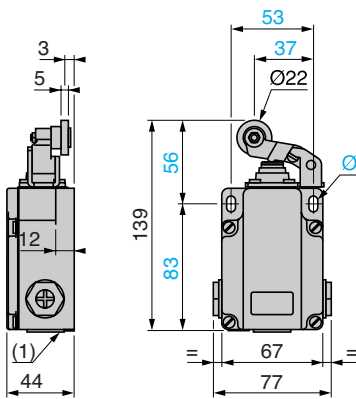
XC1AC1●5



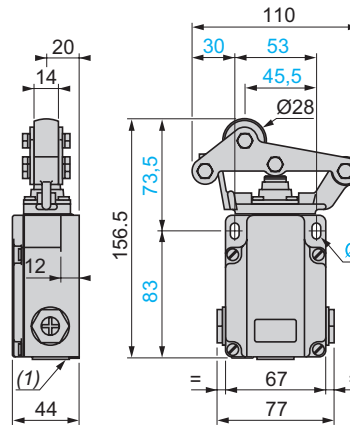
XC1AC1●6



XC1AC1●8



XC1AC1●7, XC1AC1●9



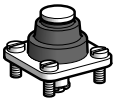
(1) 3 tapped entries for n° 13 cable gland or ISO 20 with adaptor DE9RA1620.
Ø: 2 elongated holes Ø 6.5 x 10.

Limit switches

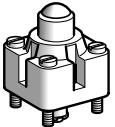
OsiSense XC Special

For material handling applications, type XC1AC
Replacement parts

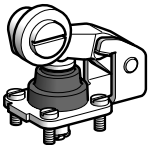
1



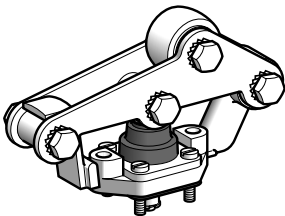
ZC1AC001



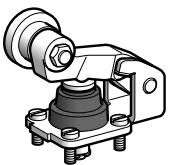
ZC1AC005



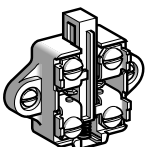
ZC1AC006



ZC1AC007
ZC1AC009



ZC1AC008



ZC1AZ1

Plunger heads

Type of operator	Maximum actuation speed	Type of actuation	Reference	Weight kg
For actuation on end				
End plunger	0.5 m/s		ZC1AC001	0.035
For actuation by 30° cam				
End ball bearing plunger	0.5 m/s		ZC1AC005	0.050
Roller lever plunger	1 m/s (direction A) 0.5 m/s (direction B)		ZC1AC006	0.100
Reinforced roller lever plunger	1 m/s (direction A) 0.5 m/s (direction B)		ZC1AC007	0.375
Offset roller lever plunger	1 m/s (direction A) 0.5 m/s (direction B)		ZC1AC008	0.100
Needle bearing mounted roller lever plunger	1 m/s (direction A) 0.5 m/s (direction B)		ZC1AC009	3.380

Contact blocks

Type of contact	Scheme	Reference	Weight kg
CO, single-pole		ZC1AZ11	0.040
NC + NO break before make		ZC1AZ12	0.045
NO + NC make before break		ZC1AZ13	0.040
NC + NC simultaneous		ZC1AZ14	0.045
NO + NO simultaneous		ZC1AZ15	0.045
NC + NC staggered		ZC1AZ16	0.040
NO + NO staggered		ZC1AZ17	0.040

Adaptation plate

Description	Reference	Weight kg
Mounting plate (For replacing an old version type RN-67522 limit switch by an XC1AC limit switch)	ZC1AZ8	3.380

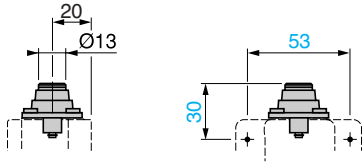
Limit switches

OsiSense XC Special

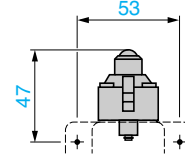
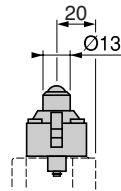
For material handling applications, type XC1AC
Replacement parts

Dimensions

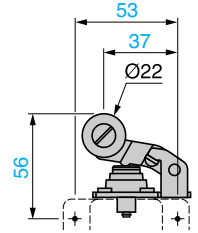
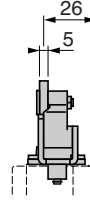
ZC1AC001



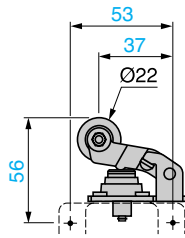
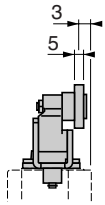
ZC1AC005



ZC1AC006



ZC1AC008



ZC1AC007, ZC1AC009

