



Main

Range of product	OsiSense ATEX D
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKD
Sensor design	Compact form B conforming to CENELEC EN 50047
Body type	Fixed
Head type	Plunger head
Material	Metal
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Metal spring return plunger
Switch actuation	On end
Type of approach	Vertical approach, 1 direction
Electrical connection	Screw-clamp terminals, 1 x 0.34...2 x 0.75 mm ²
Cable entry number	1 tapped entry (M16 x 1.5) for cable gland (included), cable outer diameter: 4...8 mm
Number of poles	3
Contacts type and composition	2 NC + 1 NO
Contacts insulation form	Zb
Contacts operation	Snap action
Number of steps	1
Positive opening	With
Minimum force for tripping	15 N
Maximum actuation speed	0.5 m/s
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529

Complementary

Body material	Zamak
Head material	Zamak
Positive opening minimum force	45 N
Minimum actuation speed	0.01 m/min
Contact code designation	B300, AC-15 (240 V, I _e = 1.5 A) conforming to EN 60947-5-1 B300, AC-15 (240 V, I _e = 1.5 A) conforming to IEC 60947-5-1 appendix A R300, DC-13 (250 V, I _e = 0.1 A) conforming to EN 60947-5-1 R300, DC-13 (250 V, I _e = 0.1 A) conforming to IEC 60947-5-1 appendix A
[I _{th}] conventional enclosed thermal current	6 A AC
[U _i] rated insulation voltage	300 V conforming to UL 508 400 V, pollution degree: 3 conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14
Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
[U _{imp}] rated impulse withstand voltage	4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1

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Short circuit protection	6 A cartridge fuse, type gG
Electrical durability	5000000 cycles DC-13 120 V 2 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC 5000000 cycles DC-13 24 V 4 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC 5000000 cycles DC-13 48 V 3 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC
Mechanical durability	15000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	31 mm
Height	65 mm
Depth	30 mm

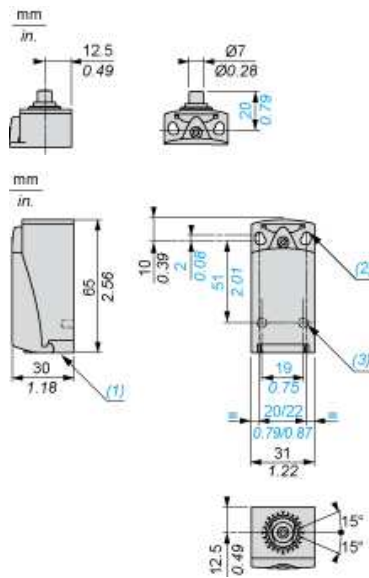
Environment

Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	25 gn 10...500 Hz IEC 60068-2-6
Class of protection against electric shock	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient air temperature for operation	-20...60 °C
Protective treatment	TC
Dust zone	Zone 21 - 22
Product certifications	INERIS 04ATEX0014X
Standards	Directive ATEX 94/9/EC EN/IEC 60079-0 EN/IEC 60079-31

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1002 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

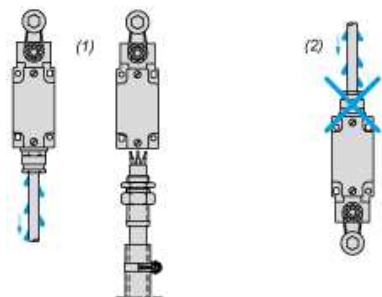
Dimensions



- (1) Tapped entry for M16 x 1.5
- (2) 2 elongated holes $\text{Ø} 4.3 \times 6.3$ mm on 22 mm centres, 2 holes $\text{Ø} 4.3$ on 20 mm centres.
- (3) 2 x $\text{Ø} 3$ holes for support studs, depth 4 mm.

Mounting with Cable Entry

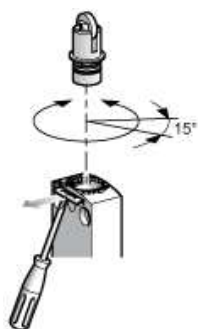
Position of Cable Gland



- (1) Recommended
- (2) To be avoided

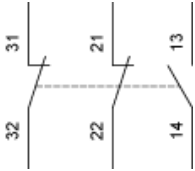
Setting-up

Plunger or Multi-directional Heads



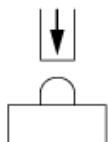
Wiring Diagram

3-pole NC + NC + NO Snap Action

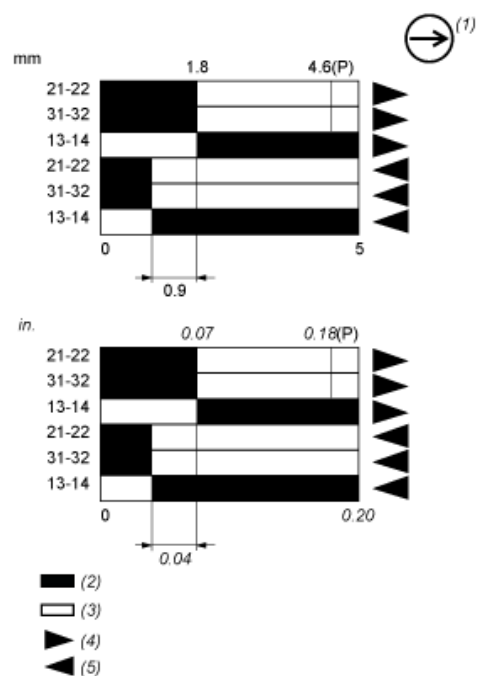


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



- (P) Positive opening point
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting