Product datasheet
Characteristics

XCKD39H2P16EX

Main

Range of product	OsiSense ATEX D
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKD
Sensor design	Compact
Body type	Fixed
Head type	M18 plunger head
Material	Metal
Fixing mode	By the head
Movement of operating head	Linear
Type of operator	Steel spring return roller plunger
Switch actuation	By 30° cam
Type of approach	Lateral approach, 2 directions
Electrical connection	Screw-clamp terminals, 1 x 0.34...2 x 0.75 mm²
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
Contact operation	Snap action
Number of steps	1
Positive opening	With
Minimum force for tripping	10 N
Maximum actuation speed	1.64 ft/s (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	36 N
Minimum actuation speed	0.01 m/min
Contact code designation	B300, AC-15 (240 V, Ie = 1.5 A) conforming to EN 60947-5-1 B300, AC-15 (240 V, Ie = 1.5 A) conforming to IEC 60947-5-1 appendix A R300, DC-13 (250 V, Ie = 0.1 A) conforming to EN 60947-5-1 R300, DC-13 (250 V, Ie = 0.1 A) conforming to IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	6 A AC
[Ui] rated insulation voltage	400 V, pollution degree: 3 conforming to IEC 60947-1 300 V conforming to UL 508 300 V conforming to CSA C22.2 No 14
Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1
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	10000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	1.22 in (31 mm)
Height	2.56 in (65 mm)
Depth	1.18 in (30 mm)

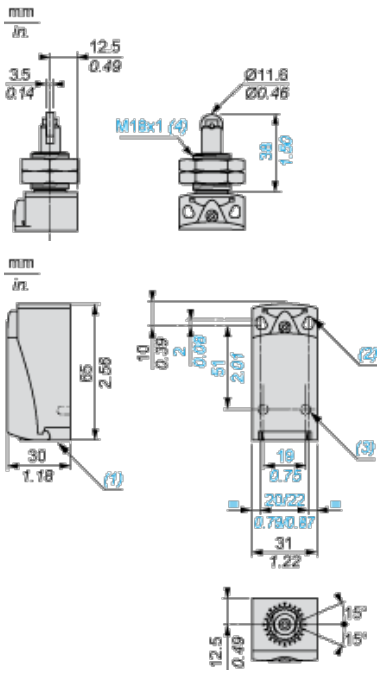
Environment

shock resistance	50 gn 11 ms conforming to IEC 60068-2-27
vibration resistance	25 gn 10...500 Hz IEC 60068-2-6
electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
ambient air temperature for operation	-4...140 °F (-20...60 °C)
protective treatment	TC
dust zone	Zone 21 - 22
product certifications	INERIS 04ATEX0014X IEC-Ex INE 17.0020X
standards	EN/IEC 60079-0 EN/IEC 60079-31
directives	2014/34/EU - ATEX directive

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1103 - Schneider Electric declaration of conformity	Compliant - since 1103 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Need no specific recycling operations	Need no specific recycling operations
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Dimensions

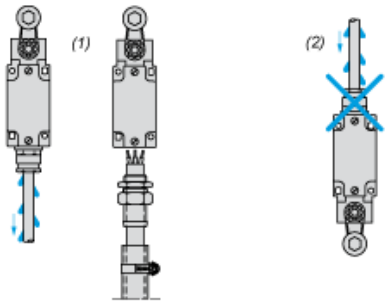


(1) Tapped entry for M16 x 1.5

(2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
(3) 2 x Ø 3 holes for support studs, depth 4 mm.
(4) Fixing nut thickness 3.5 mm.

Mounting with Cable Entry

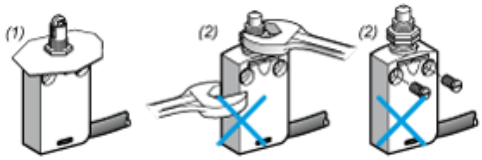
Position of Cable Gland



(1) Recommended
(2) To be avoided

Panel Mounting

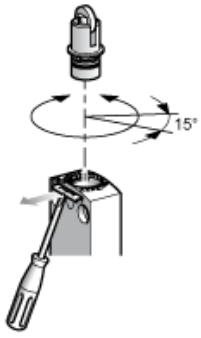
Mounting and Fixing Limit Switches by the Head



(1) Recommended
(2) Forbidden

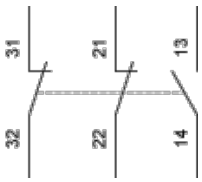
Setting-up

Plunger or Multi-directional Heads



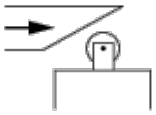
Wiring Diagram

3-pole NC + NC + NO Snap Action

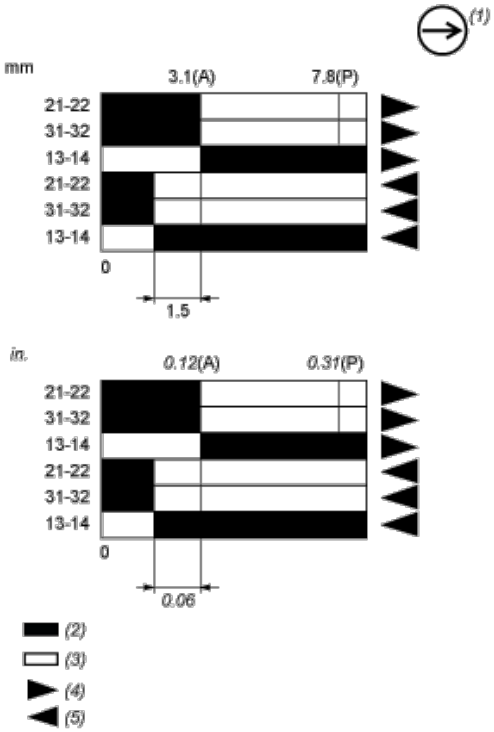


Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



(P) Positive opening point

(A) Cam displacement

(1) NC contact with positive opening operation

(2) Closed

(3) Open

(4) Tripping

(5) Resetting