

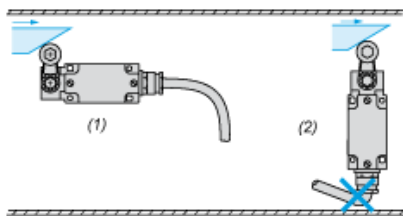


Main

Range of product	OsiSense ATEX D
Series name	Standard format
Product or component type	Limit switch
Device short name	XCMD
Sensor design	Miniature
Body type	Fixed
Head type	M12 plunger head
Material	Metal
Fixing mode	By the head
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	Fixed cable
Number of poles	4
Contacts type and composition	2 x (1 NC + 1 NO)
Contacts insulation form	Zb
Contact operation	Snap action
Number of steps	1
Positive opening	With
Minimum force for tripping	8.5 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

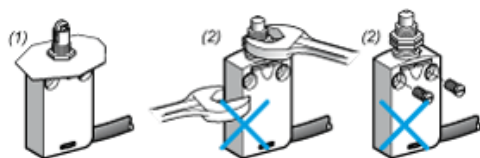
Body material	Zamak
Head material	Zamak
Cable length	16.4 ft (5 m)
Cable composition	9 x 0.34 mm ²
Wire insulation material	PvR
Positive opening minimum force	42.5 N
Minimum actuation speed	0.01 m/min
Contact code designation	C300, AC-15 (240 V, I _e = 0.75 A) conforming to EN 60947-5-1 C300, AC-15 (240 V, I _e = 0.75 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 _{the}] conventional enclosed thermal current	3 A AC
[U _i] 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
[U _{imp}] 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 24 V 3 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC 5000000 cycles DC-13 48 V 2 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC 5000000 cycles DC-13 120 V 1 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC
Mechanical durability	10000000 cycles



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

Panel Mounting

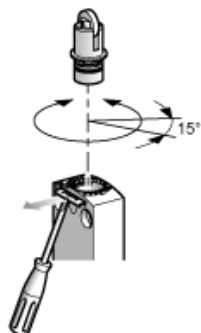
Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

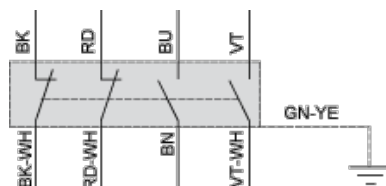
Setting-up

Plunger or Multi-directional Heads



Wiring Diagram

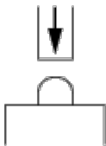
4-pole NC + NC + NO + NO Snap Action



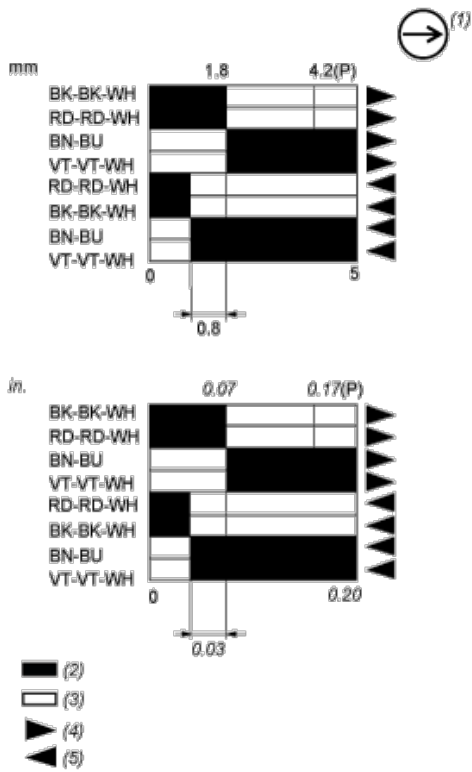
- (BK) Black
- (BK- Black White
WH)
- (RD) Red
- (RD- Red White
WH)
- (BU) Blue
- (BN) Brown
- (VT) Violet White
- (VT- Violet White
WH)
- (GN- Green Yellow
YE)

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
- (BK) Black
- (BK- Black White
WH)
- (RD) Red
- (RD- Red White
WH)
- (BN) Brown
- (BU) Blue
- (VT) Violet
- (VT Violet White
WH)