



## 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<br>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 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                        |
| 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 <sub>e</sub> = 0.75 A) conforming to EN 60947-5-1<br>C300, AC-15 (240 V, I <sub>e</sub> = 0.75 A) conforming to IEC 60947-5-1 appendix A<br>R300, DC-13 (250 V, I <sub>e</sub> = 0.1 A) conforming to EN 60947-5-1<br>R300, DC-13 (250 V, I <sub>e</sub> = 0.1 A) conforming to IEC 60947-5-1 appendix A                                  |
| [I <sub>the</sub> ] conventional enclosed thermal current | 3 A AC                                                                                                                                                                                                                                                                                                                                                          |
| [U <sub>i</sub> ] rated insulation voltage                | 400 V, pollution degree: 3 conforming to IEC 60947-1<br>300 V conforming to UL 508<br>300 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                       |
| Resistance across terminals                               | <= 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                                                                                                                                 |
| [U <sub>imp</sub> ] rated impulse withstand voltage       | 4 kV conforming to IEC 60664<br>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<br>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<br>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                                                                                                                                                                                                                                                                                                                                                 |

|         |                                   |
|---------|-----------------------------------|
| Marking | II2 D-Ex tb IIIC T85°C Db IP66/67 |
| Width   | 1.18 in (30 mm)                   |
| Height  | 1.97 in (50 mm)                   |
| Depth   | 0.63 in (16 mm)                   |

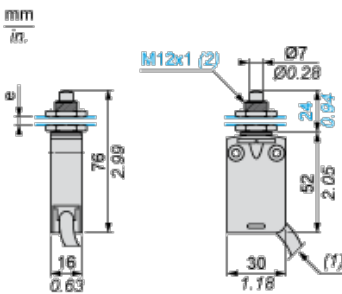
### Environment

|                                       |                                                                      |
|---------------------------------------|----------------------------------------------------------------------|
| shock resistance                      | 25 gn 18 ms conforming to IEC 60068-2-27                             |
| vibration resistance                  | 5 gn 10...500 Hz IEC 60068-2-6                                       |
| electrical shock protection class     | Class I conforming to IEC 61140<br>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<br>IEC-Ex INE 17.0020X                            |
| standards                             | EN/IEC 60079-0<br>EN/IEC 60079-31                                    |
| directives                            | 2014/34/EU - ATEX directive                                          |

### Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Compliant - since 1001 - Schneider Electric declaration of conformity                                                      | Compliant - since 1001 - Schneider Electric declaration of conformity                                                      |
| Available                                                                                                                  | Available                                                                                                                  |
| Available                                                                                                                  | Available                                                                                                                  |
| 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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

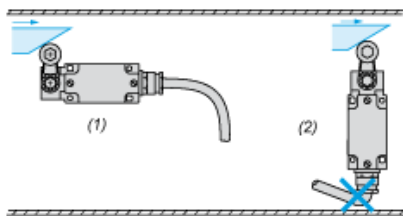
### Dimensions



- (1) External diameter of cable 7.5 mm.  
 (2) Fixing nut thickness 3.5 mm.  
 e : 8 mm max, panel cut-out Ø 12.5 mm.

### Mounting

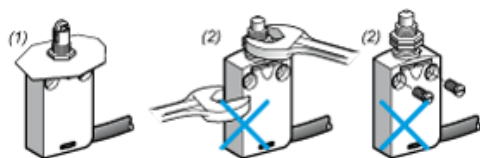
#### Sweep of Connecting Cable



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

## Panel Mounting

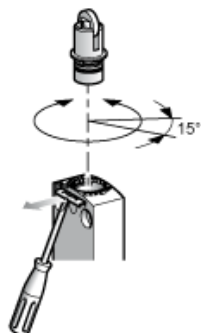
### Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

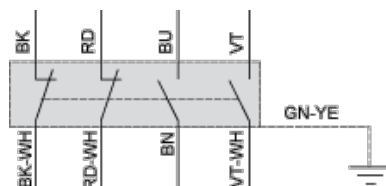
## Setting-up

### Plunger or Multi-directional Heads



## Wiring Diagram

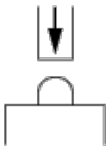
### 4-pole NC + NC + NO + NO Snap Action



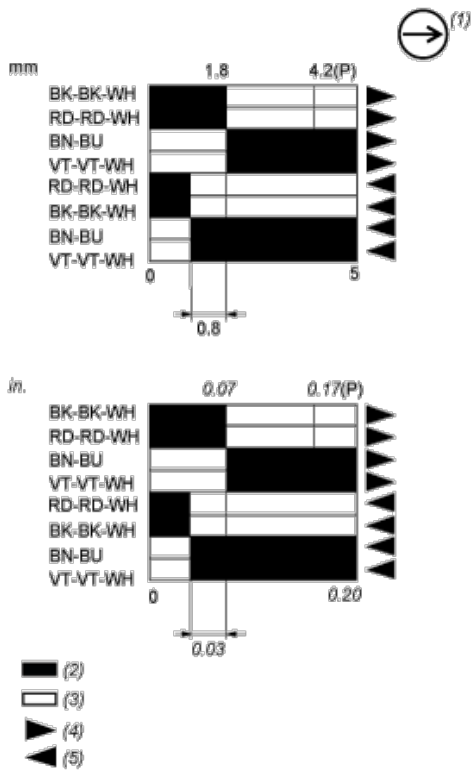
- (BK) Black
- (BK- Black White  
WH)
- (RD) Red
- (RD- Red White  
WH)
- (BU) Blue
- (BN) Brown
- (VT) Violet White
- (VT- Violet White  
WH)
- (GN- Green Yellow  
YE)

## 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)

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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