



## Main

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Range of product              | OsiSense XC                                              |
| Series name                   | Standard format                                          |
| Product or component type     | Limit switch                                             |
| Device short name             | XCMD                                                     |
| Sensor design                 | Miniature                                                |
| Body type                     | Plug-in body                                             |
| Head type                     | M16 plunger head                                         |
| Material                      | Metal                                                    |
| Body material                 | Zamak                                                    |
| Head material                 | Zamak                                                    |
| Fixing mode                   | By the head                                              |
| Movement of operating head    | Linear                                                   |
| Type of operator              | Spring return roller plunger metal (with elastomer boot) |
| Type of approach              | Vertical approach 1 direction                            |
| Number of poles               | 2                                                        |
| Contacts type and composition | 1 NC + 1 NO                                              |
| Contact operation             | Snap action                                              |

## Complementary

|                                              |                                                                                                                                                                                                                                                    |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                             | On end                                                                                                                                                                                                                                             |
| Electrical connection                        | Male connector M12, 5 pins                                                                                                                                                                                                                         |
| Contacts insulation form                     | Zb                                                                                                                                                                                                                                                 |
| Positive opening                             | With                                                                                                                                                                                                                                               |
| Positive opening minimum force               | 42.5 N                                                                                                                                                                                                                                             |
| Minimum force for tripping                   | 8.5 N                                                                                                                                                                                                                                              |
| Minimum actuation speed                      | 0.01 m/min                                                                                                                                                                                                                                         |
| Maximum actuation speed                      | 1.64 ft/s (0.5 m/s)                                                                                                                                                                                                                                |
| [Ie] rated operational current               | 0.22 A at 50 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A<br>3 A at 50 V, AC-15 conforming to EN/IEC 60947-5-1 appendix A                                                                                                                    |
| [Ithe] conventional enclosed thermal current | 4 A                                                                                                                                                                                                                                                |
| [Ui] rated insulation voltage                | 60 V degree of pollution 3 conforming to IEC 60947-5-1                                                                                                                                                                                             |
| Resistance across terminals                  | <= 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                    |
| [Uimp] rated impulse withstand voltage       | 0.8 kV conforming to IEC 60664<br>0.8 kV conforming to IEC 60947-1                                                                                                                                                                                 |
| Short-circuit protection                     | 4 A by gG cartridge fuse                                                                                                                                                                                                                           |
| Electrical durability                        | 5000000 cycles, DC-13, 24 V, 3 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 48 V, 2 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                        | 10000000 cycles                                                                                                                                                                                                                                    |
| Width                                        | 1.18 in (30 mm)                                                                                                                                                                                                                                    |
| Height                                       | 1.97 in (50 mm)                                                                                                                                                                                                                                    |
| Depth                                        | 0.63 in (16 mm)                                                                                                                                                                                                                                    |
| Product weight                               | 0.28 lb(US) (0.125 kg)                                                                                                                                                                                                                             |

## Environment

|                  |                                                       |
|------------------|-------------------------------------------------------|
| shock resistance | 25 gn (duration = 18 ms) conforming to IEC 60068-2-27 |
|------------------|-------------------------------------------------------|

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| vibration resistance                  | 5 gn (f = 10...500 Hz) conforming to IEC 60068-2-6                                           |
| IP degree of protection               | IP68 conforming to IEC 60529<br>IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529 |
| IK degree of protection               | IK06 conforming to EN 62262                                                                  |
| electrical shock protection class     | Class I conforming to IEC 61140<br>Class I conforming to NF C 20-030                         |
| ambient air temperature for operation | -13...158 °F (-25...70 °C)                                                                   |
| ambient air temperature for storage   | -40...158 °F (-40...70 °C)                                                                   |
| protective treatment                  | TC                                                                                           |
| product certifications                | CCC<br>CSA<br>UL                                                                             |
| standards                             | EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14                              |

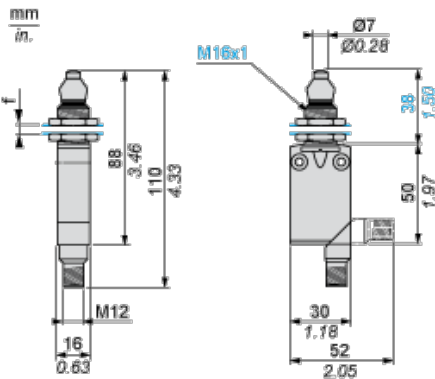
### Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 1002 - Schneider Electric declaration of conformity                                                      | Compliant - since 1002 - Schneider Electric declaration of conformity                                                      |
| Reference not containing SVHC above the threshold                                                                          | Reference not containing SVHC above the threshold                                                                          |
| Available                                                                                                                  | Available                                                                                                                  |
| 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 <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>                              |

### Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

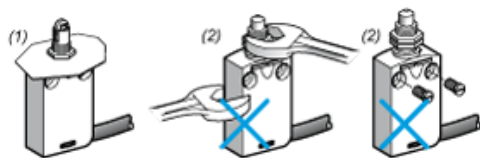
### Dimensions



f : 8 mm max., panel cut-out Ø 16.5 mm, fixing nut thickness 3.5 mm.

### Panel Mounting

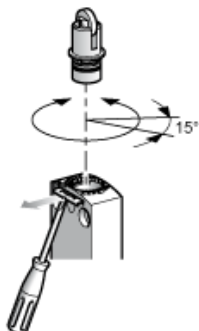
#### Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

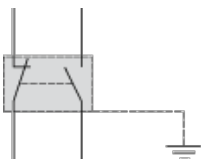
## Setting-up

### Plunger or Multi-directional Heads



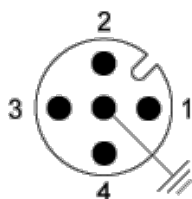
## Wiring Diagram

### 2-pole NC + NO Snap Action + Integral M12 5-pin Connector



## Wiring Diagram

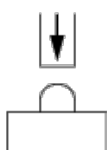
### 5-pin, M12, 4A-60V



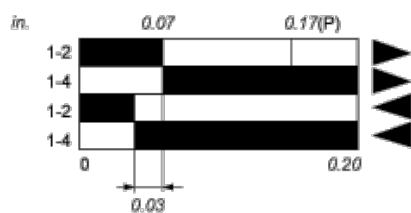
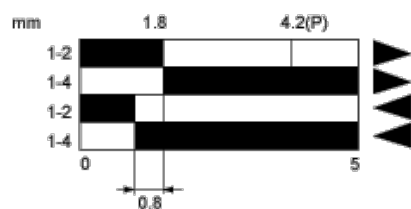
- 1 - NC
- 2 :
- 3 - NO
- 4 :
- 5 : Grounding

## Characteristics of Actuation

### Switch Actuation on End



## Functionnal Diagram



■ (1)

□ (2)

▶ (3)

◀ (4)

(P) Positive opening point

(1) Closed

(2) Open

(4) Tripping

(5) Resetting

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.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

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.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)