



# BX04-BX10

## BX04S/00-AB

Area Sen, H=90mm-30mm pitch,Emitter  
MEDIUM RESOLUTION AREA SENSORS

## OVERVIEW

- IP67 protection degree (IP69K special model)
- Complete protection against electrical damages
- Detection of objects with irregular shape
- ATEX models, cat. 2 and cat. 3, available on request
- LED indicators
- Crossed beams detection



## TECHNICAL FEATURES

### Detection properties

|                          |            |
|--------------------------|------------|
| Nominal sensing distance | 0,3 ... 2m |
|--------------------------|------------|

|                     |      |
|---------------------|------|
| Thermal drift of Sr | ≤10% |
|---------------------|------|

|             |      |
|-------------|------|
| Beams space | 30mm |
|-------------|------|

|                   |      |
|-------------------|------|
| controlled height | 90mm |
|-------------------|------|

|                           |        |
|---------------------------|--------|
| minimum detectable object | Ø 15mm |
|---------------------------|--------|

|                |   |
|----------------|---|
| number of rays | 4 |
|----------------|---|

|                        |         |
|------------------------|---------|
| Sensitivity adjustment | Trimmer |
|------------------------|---------|

Application

|                    |         |
|--------------------|---------|
| Function Principle | Emitter |
|--------------------|---------|

Outputs

|             |         |
|-------------|---------|
| Output type | Emitter |
|-------------|---------|

|                 |         |
|-----------------|---------|
| Output Function | Emitter |
|-----------------|---------|

Electrical data

|                   |            |
|-------------------|------------|
| Operating Voltage | 10...26VDC |
|-------------------|------------|

|                        |      |
|------------------------|------|
| No-Load supply current | 25mA |
|------------------------|------|

|                    |       |
|--------------------|-------|
| Max ripple content | ≤ 10% |
|--------------------|-------|

|                |                 |
|----------------|-----------------|
| LED indicators | Green (powerON) |
|----------------|-----------------|

|                                |        |
|--------------------------------|--------|
| Time delay before availability | ≤ 85ms |
|--------------------------------|--------|

|                             |     |
|-----------------------------|-----|
| Reverse Polarity Protection | Yes |
|-----------------------------|-----|

|          |          |
|----------|----------|
| Emission | Infrared |
|----------|----------|

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| Interference to external light | 1000lux (incandescent lamp), 1500lux (sunlight) |
|--------------------------------|-------------------------------------------------|

Mechanical data

|            |                     |
|------------|---------------------|
| Dimensions | 45mm x 145mm x 20mm |
|------------|---------------------|

|                  |     |
|------------------|-----|
| Housing material | PBT |
|------------------|-----|

|                       |                                |
|-----------------------|--------------------------------|
| Weight                | 150g                           |
| Connections           | PVC 2m cable                   |
| Active Head Material  | PC                             |
| Tightening torque     | 25Nm                           |
| Operating temperature | 0°C...+ 50° C (without freeze) |

Test/Approvals

|                      |              |
|----------------------|--------------|
| Approvals            | CE cULus     |
| EMC compatibility    | EN 60947-5-2 |
| Degree of protection | IP67         |

Accessories

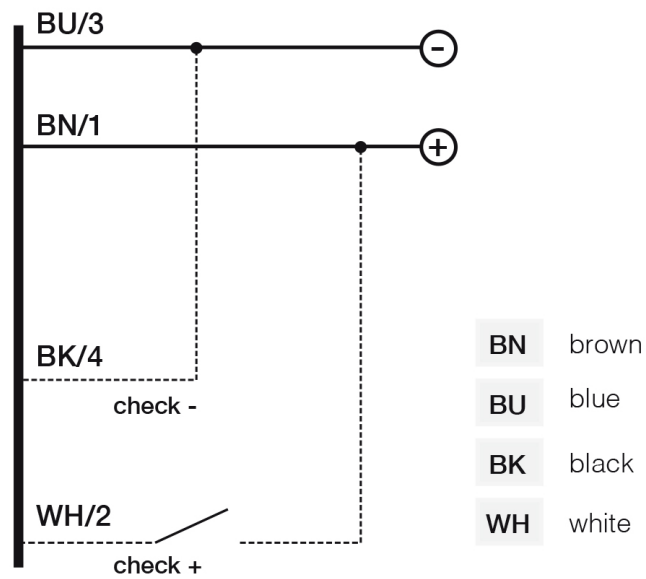
|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Supplied Accessories | 4 nuts M18x1 - 1 adjustment key - 2 90°angled brackets |
|----------------------|--------------------------------------------------------|

Generical Data

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | 45x145x20                      |
| Operating Temperature | 0°C...+ 50° C (without freeze) |
| Mechanical Protection | IP67                           |

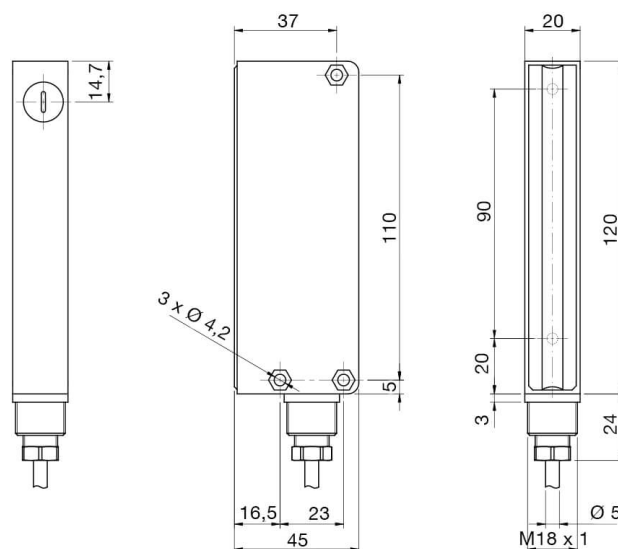
# CONNECTIONS

Eletrical diagram



## OTHERS

### Dimensions



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