



Cerberus®

## Picture surveillance system

**BM41**  
**BM46**  
**BM55**

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- Response to touching, damage and theft
  - No installation work required on work of art
  - Effective supplement to peripheral and space surveillance systems
  - Attractive design; also suitable for flush mounting
  - Flexible display arrangements for varying exhibitions

## Application

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The picture surveillance system provides reliable around the clock surveillance for all works of art suspended on walls in museums and galleries. Typical objects: paintings, carpets, masks.

- **Reliable surveillance**

The system signals alarm when the object is touched, moved or removed, thus guaranteeing optimum surveillance especially when the gallery is open to the public. For tamper security the covers of both detector types and the support rail are each supervised by a contact.

- **Fast and easy installation**

The support rail BMT2 is surface or recess mounted at a suitable height along the walls of the exhibition rooms. The detectors are placed at the required positions in the rail and can be moved at any time when changes to the exhibition are necessary. The objects to be displayed are suspended by thin steel wires to the hooks of the detector.

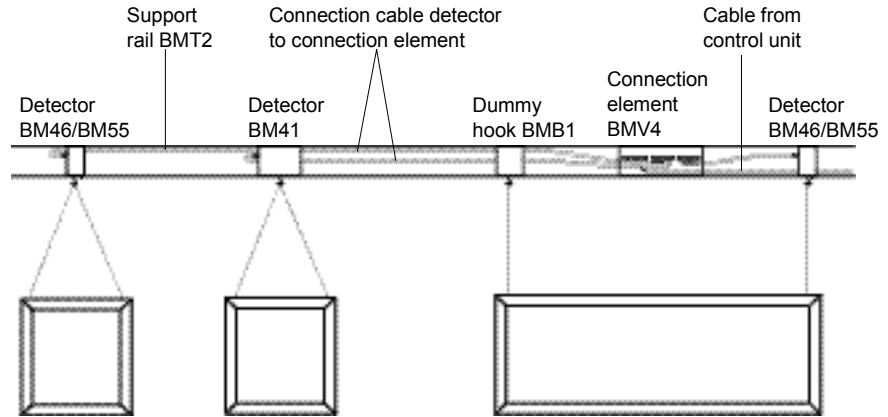
- **Flexible application**

The electromechanical detector BM41 triggers an alarm when the object is lifted from the hook.

The electronic detector BM46 or BM55 (VdS approved) responds to movement of a few thousandths of a millimetre. Simply touching the supervised object is therefore sufficient to trigger alarm.

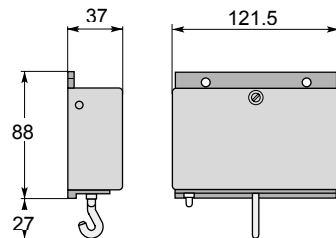
For two and multi-point suspension the dummy hook BMB1, which has no detection capability, can be used together with a detector.

## Schematic diagram

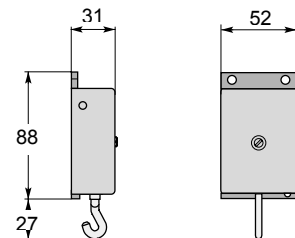


## Dimensions

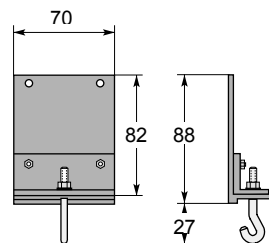
**Detector BM41**



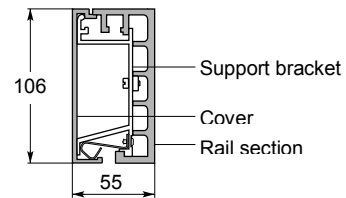
**Detector BM46/BM55**



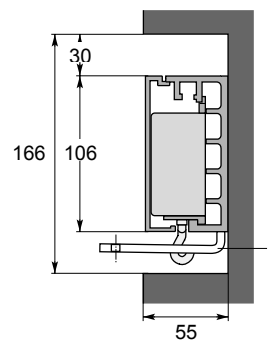
**Dummy hook BMB1**



**Support rail BMT2**



**Recessed mounting of support rail BMT2**



## Technical data

| Type                                              | BM41          | BM46                     | BM55                     |
|---------------------------------------------------|---------------|--------------------------|--------------------------|
| Load carrying limits of detector and dummy hook   |               |                          |                          |
| Minimum suspended weight                          | 1.5kg         | 0.5kg                    | 0.5kg                    |
| Maximum suspended weight                          |               |                          |                          |
| In support rail BMT2                              | 100kg         | 100kg                    | 100kg                    |
| Separate mounting                                 | 50kg          | 50kg                     | 50kg                     |
| With extension hook                               | 40kg          | 40kg                     | 40kg                     |
| Supply                                            | –             | 9 ... 16VDC              | 9 ... 16VDC              |
| Current consumption                               | –             | 8mA                      | 8mA                      |
| Alarm threshold continuously variable             | –             | range approx 1 : 6       | range approx 1 : 6       |
| Alarm outputs                                     |               |                          |                          |
| - SPDT contact, low voltage max. load             | 1A / 25VA     | –                        | –                        |
| - Alarm relay, max. load                          | –             | 16VDC/100mA              | 16VDC/100mA              |
| - Transistor with 1k $\Omega$ and diode in series | –             | minus potential at alarm | minus potential at alarm |
| - Alarm indicator                                 | –             | LED                      | LED                      |
| Alarm reset                                       | –             | negative signal          | positive signal          |
| Environmental conditions                          |               |                          |                          |
| - Operating temperature                           | -20 ... +50°C | 0 ... +50°C              | 0 ... +50°C              |
| - Storage temperature                             | -40 ... +60°C | -40 ... +60°C            | -40 ... +60°C            |
| - Air humidity (EN60721)                          | –             | < 95% rh, non condensing | < 95% rh, non condensing |
| - Housing protection (EN60529, EN50102)           | IP53          | IP53                     | IP53                     |
| Approvals                                         |               |                          |                          |
| - VdS, (class C)                                  | –             | –                        | G193047                  |

## Details for ordering

| Type    | Part no | Designation                                                                          | Weight   |
|---------|---------|--------------------------------------------------------------------------------------|----------|
| BM41    | 322102  | Electromechanical detector                                                           | 0.310kg  |
| BM46    | 563000  | Electronic detector (BM45 compatible)                                                | 0.370 kg |
| BM55    | 563547  | Electronic detector for VdS approved systems                                         | 0.370kg  |
| BMV4    | 321695  | Connection element for two BM46/BM55 and / or two BM41 incl. 10 cable clips (329639) | 0.350kg  |
| BMT2    | 368276  | Support rail 3 m, consisting of:                                                     | 9.175kg  |
|         | 368331  | 1 rail section                                                                       |          |
|         | 368315  | 1 cover                                                                              |          |
|         | 368302  | 3 support brackets                                                                   | 0.030kg  |
| BMTE2   | 368289  | End piece to BMT2                                                                    | 0.095kg  |
| BMB1    | 160209  | Dummy hook for multi-point suspension                                                | 0.115kg  |
| BMZ4    | 330204  | Extension hook, when rail is recess mounted                                          | 0.070kg  |
| BMD4/01 | 323059  | Steel wire, $\varnothing$ 1mm, 4m long, adjustable                                   | 0.030kg  |
| BMD4/02 | 323075  | Steel wire, $\varnothing$ 2mm, 4m long, adjustable                                   | 0.105kg  |