

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.

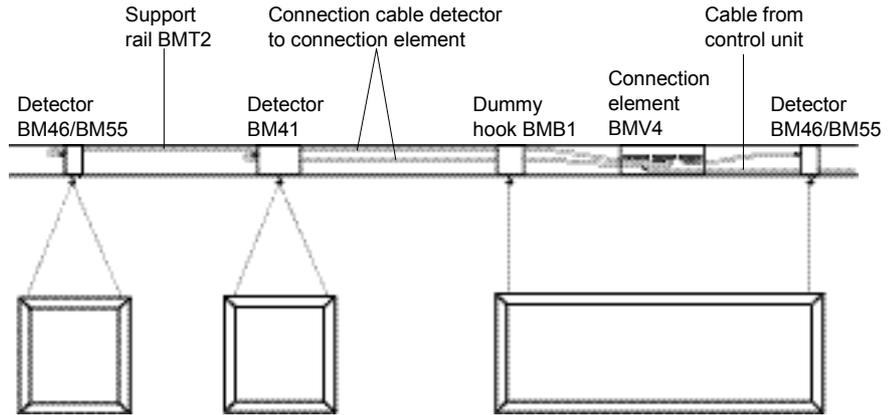
- **Flexible application**

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.

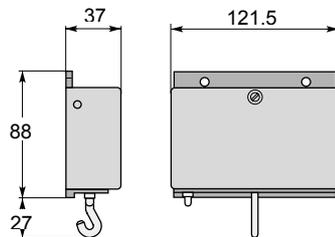
For two and multi-point suspension the dummy hook BMB1, which has no detection capability, can be used together with a detector.

## Schematic diagram

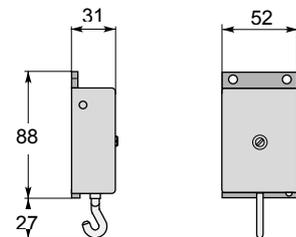


## Dimensions

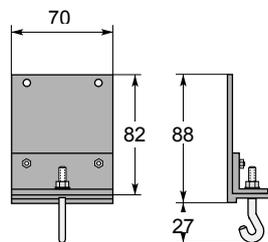
**Detector BM41**



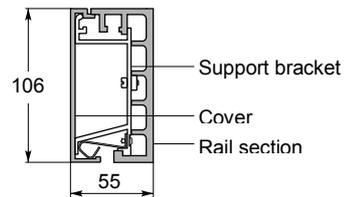
**Detector BM46/BM55**



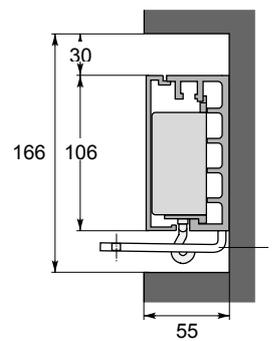
**Dummy hook BMB1**



**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