

Spark extinguishing system BM6

Product catalogue



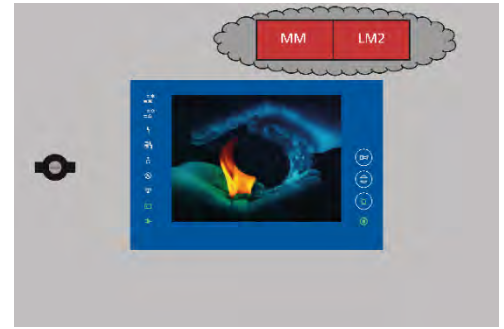
FIRE PROTECTION

MADE IN GERMANY

Spark detection units

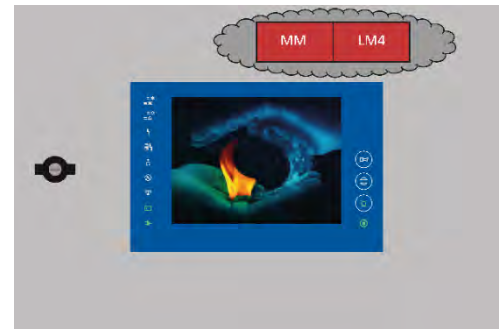
SPARK DETECTION UNIT BM 6-2 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
4 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 400 x 600 x 200 mm
Protection Classification IP 55
Item number: 1021700



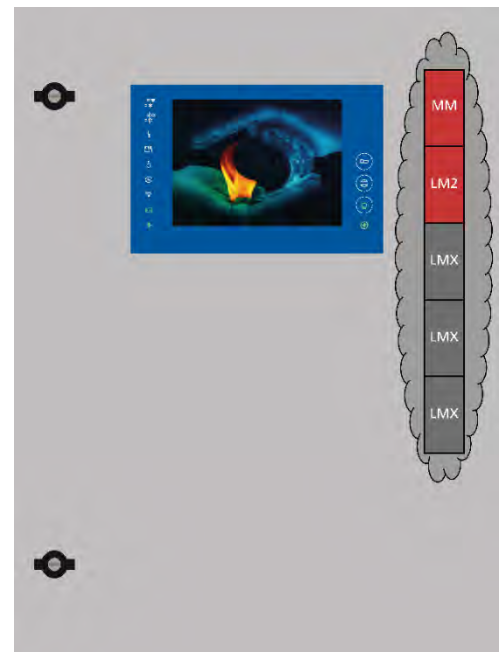
SPARK DETECTION UNIT BM 6-4 TOUCH

Microprocessor-controlled spark alarm unit equipped for 4 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
8 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 400 x 600 x 200 mm
Protection Classification IP 55
Item number: 1022700



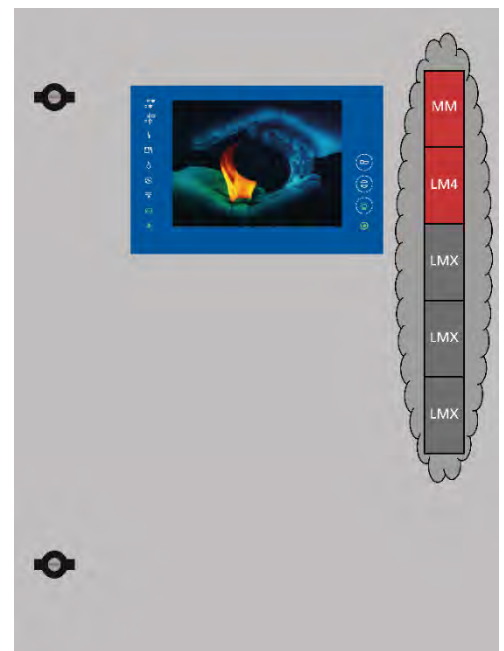
SPARK DETECTION UNIT BM 6-16/2 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
4 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1023700



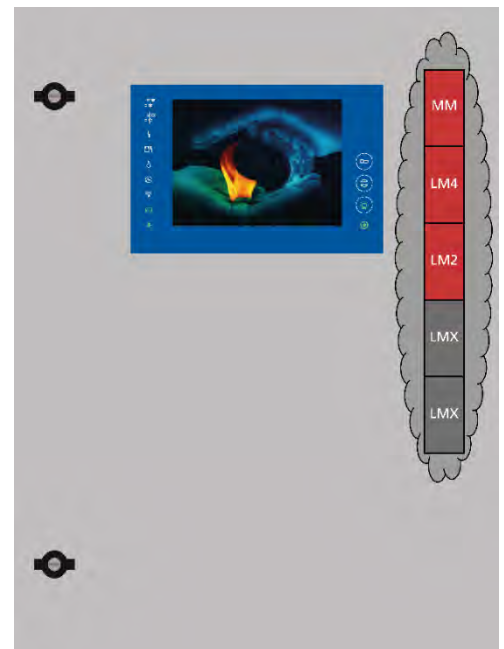
SPARK DETECTION UNIT BM 6-16/4 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
8 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1024700



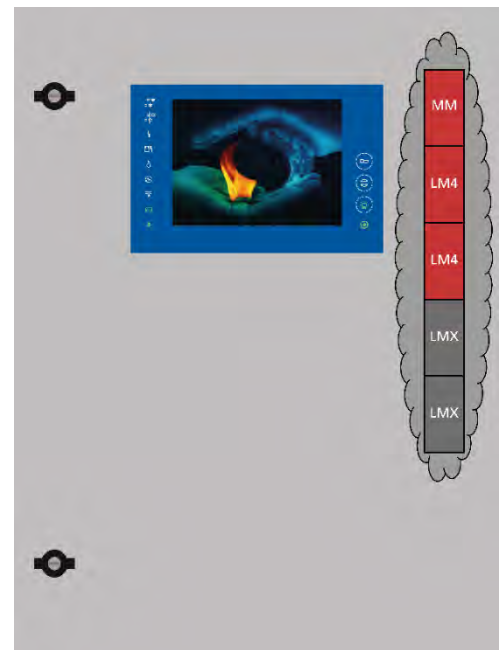
SPARK DETECTION UNIT BM 6-16/6 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
12 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1025700



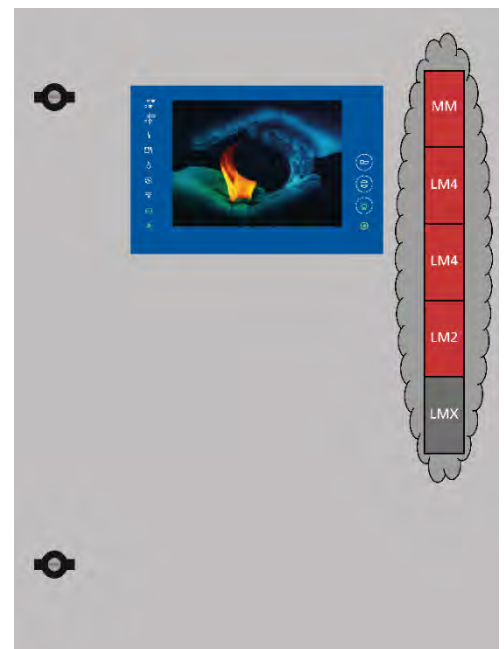
SPARK DETECTION UNIT BM 6-16/8 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
16 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1026700



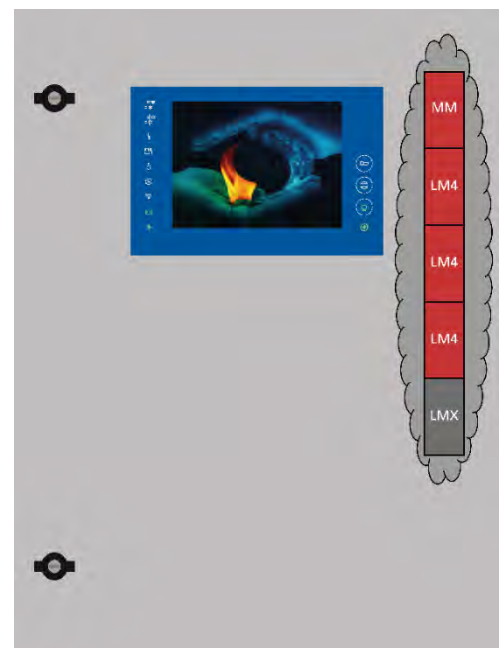
SPARK DETECTION UNIT BM 6-16/10 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
20 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1027700



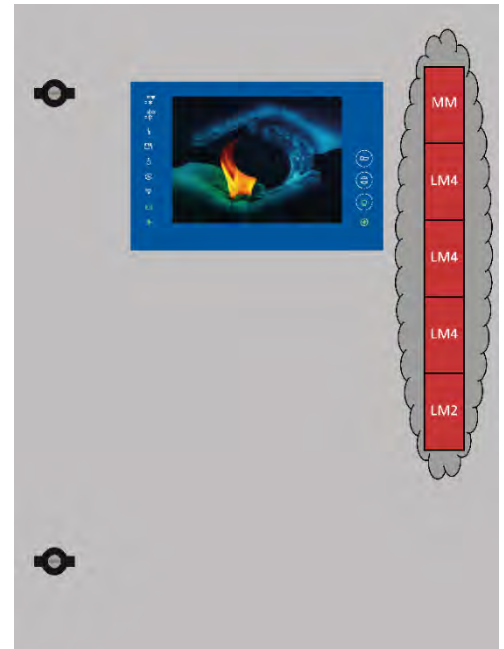
SPARK DETECTION UNIT BM 6-16/12 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
24 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1028700



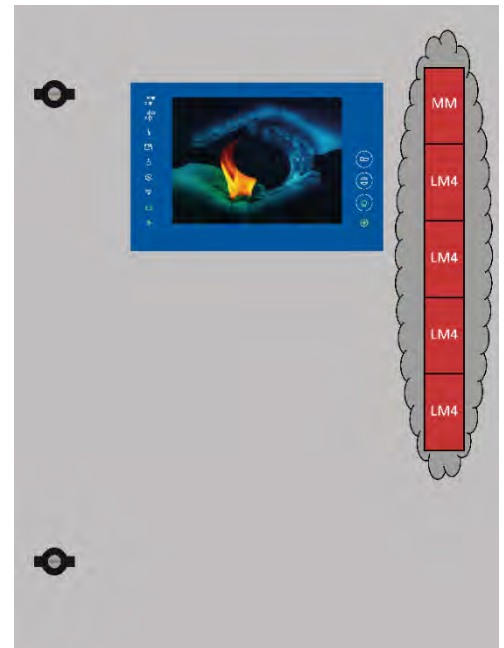
SPARK DETECTION UNIT BM 6-16/14 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
28 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1029700



SPARK DETECTION UNIT BM 6-16/16 TOUCH

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.
For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.
Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.
Option to implement PDF and video files.
Control panel for wall mounting.
Spark threshold programmable for activation of extinguishing system.
Log of 2500 events in the memory.
Built in emergency power supply for up to 4 hours operation.
32 free programmable relays per line.
32 languages installed, maybe switched at any time.
Optional: ProfiNet interface for data output.
Dimensions: 800 x 600 x 300 mm
Protection Classification IP 55
Item number: 1030700



SPARK DETECTION UNIT BM 6-36/0 TOUCH

Microprocessor-controlled spark alarm unit equipped for 36 lines (no lines included, has to be equipped with modules as required).

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons.

Intuitive touch display for visualization of alarms, number of sparks, extinguishing time, activated line.

Freestanding control panel.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

72 free programmable relays.

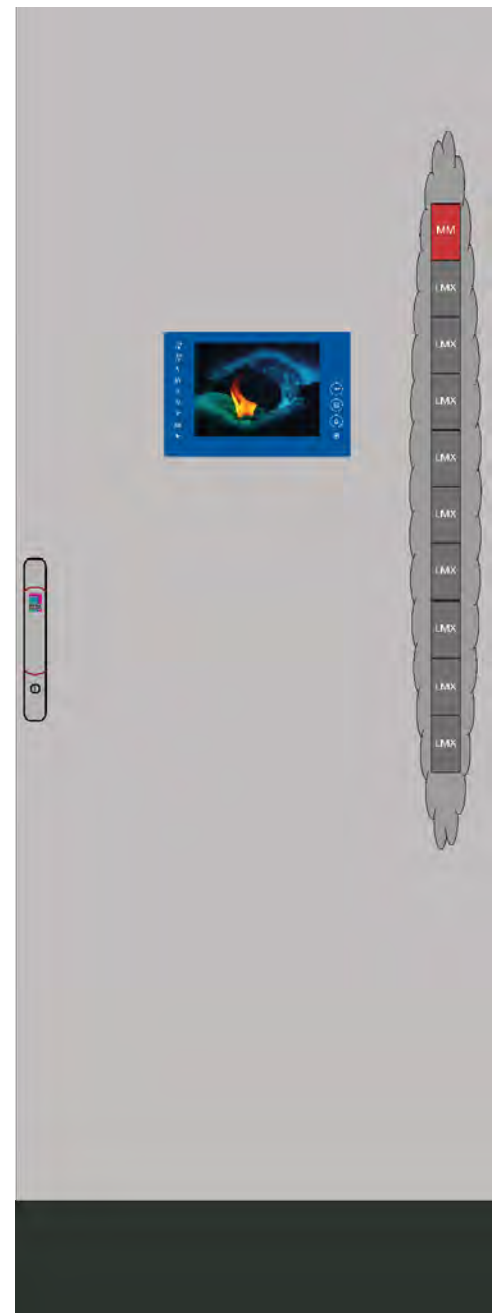
32 languages installed, maybe switched at any time.

Optional interface for data output.

Dimension: 2200x800x600mm

Protection Classification IP 55

Item number: 1031700



EXTERNAL CONTROL AND DISPLAY PANEL BM6 TOUCH IN DESK CASE

The external control and display panel enables a spark detection unit to be operated from a remote location.

Dimensions: 403 x 290 x 150 mm

Protection class: IP 20

Item number: 1035003



2-LINE MODULE TOUCH

To expand a BM 6-16 or a BM 6-16 Touch by 2 lines, 6 extinguishing outputs
Item number: 1035701



4-LINE MODULE TOUCH

To expand a BM 6-16 or a BM 6-16 Touch by 4 lines, 6 extinguishing outputs
Item number: 1035702



SPARK DETECTION UNIT BM 6-2

Microprocessor-controlled spark alarm unit equipped for 2 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

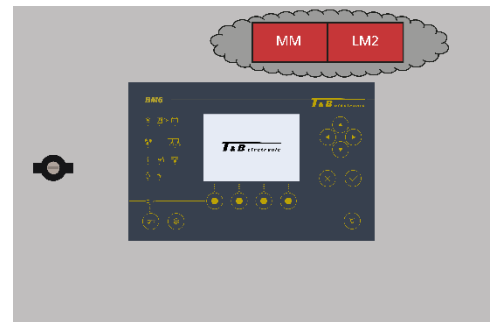
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 400 x 600 x 200 mm

Protection Classification IP 55

Item number: 1001700



SPARK DETECTION UNIT BM 6-4

Microprocessor-controlled spark alarm unit equipped for 4 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

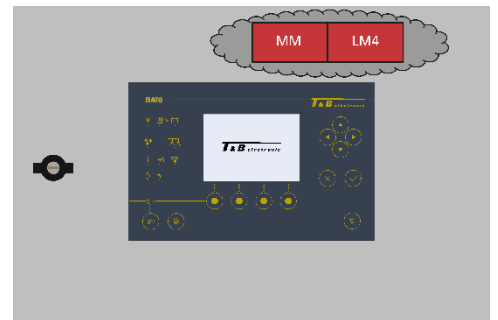
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 400 x 600 x 200 mm

Protection Classification IP 55

Item number: 1002700



SPARK DETECTION UNIT BM 6-16/2

Microprocessor-controlled spark alarm unit equipped for 2 lines, expandable for up to 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

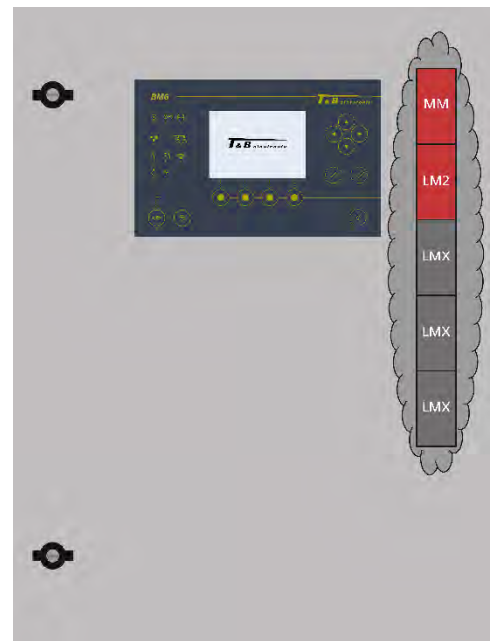
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1003700



SPARK DETECTION UNIT BM 6-16/4

Microprocessor-controlled spark alarm unit equipped for 4 lines, expandable for up to 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

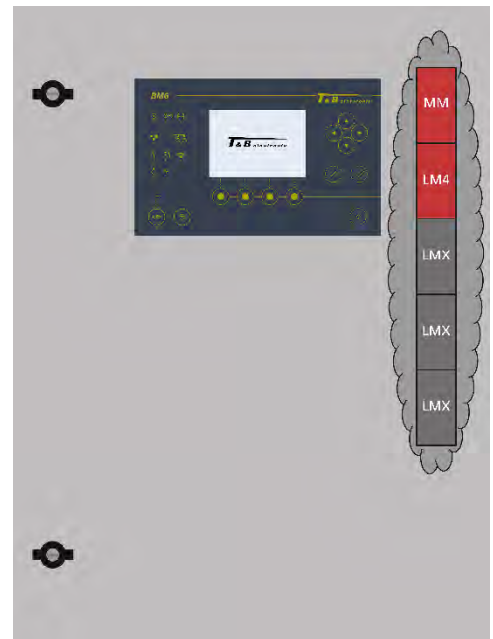
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1004700



SPARK DETECTION UNIT BM 6-16/6

Microprocessor-controlled spark alarm unit equipped for 6 lines, expandable for up to 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

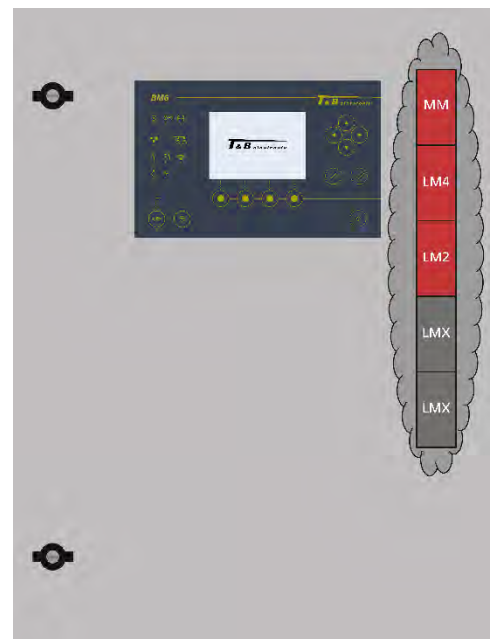
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1005700



SPARK DETECTION UNIT BM 6-16/8

Microprocessor-controlled spark alarm unit equipped for 8 lines, expandable for up to 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

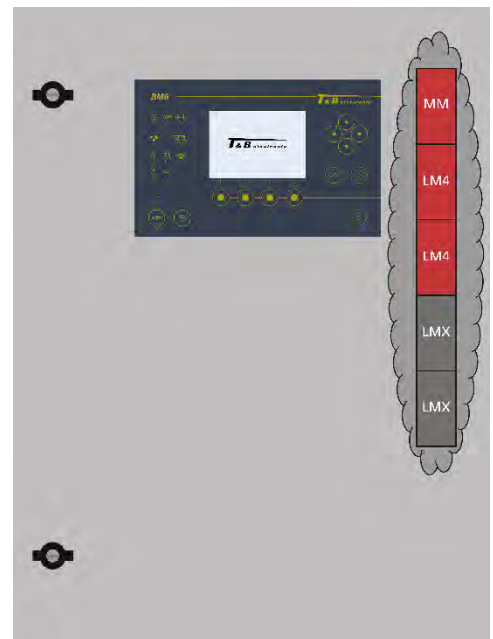
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1006700



SPARK DETECTION UNIT BM 6-16/10

Microprocessor-controlled spark alarm unit equipped for 10 lines, expandable for up to 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

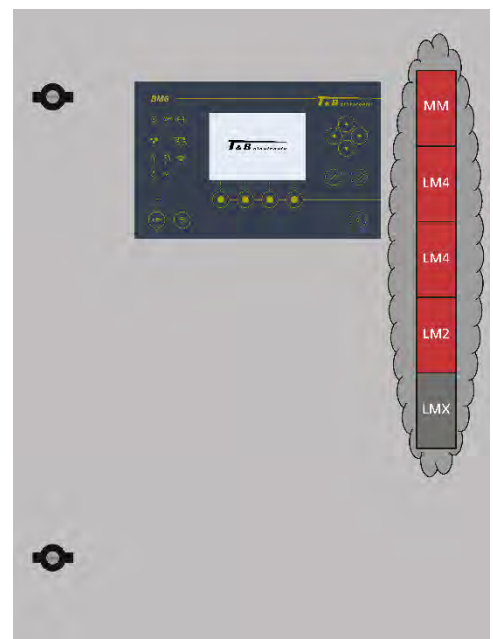
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1007700



SPARK DETECTION UNIT BM 6-16/12

Microprocessor-controlled spark alarm unit equipped for 12 lines, expandable for up to 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

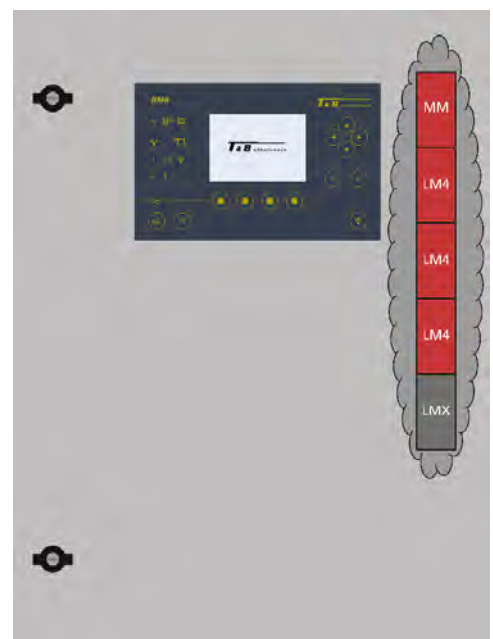
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1008700



SPARK DETECTION UNIT BM 6-16/14

Microprocessor-controlled spark alarm unit equipped for 14 lines, expandable for up to 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

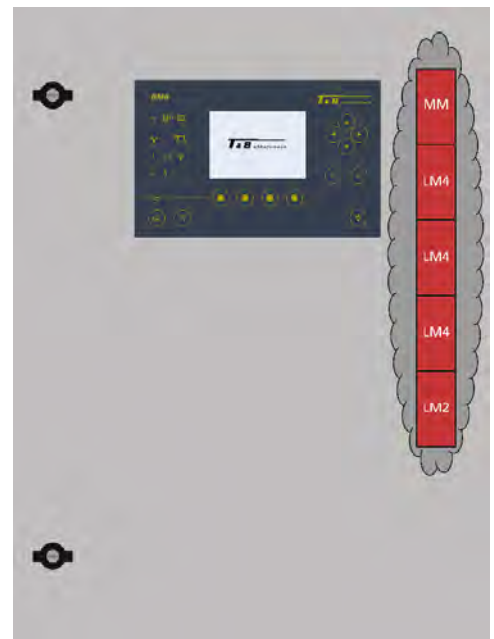
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1009700



SPARK DETECTION UNIT BM 6-16/16

Microprocessor-controlled spark alarm unit equipped for 16 lines.

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Control panel for wall mounting.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

Built in emergency power supply for up to 4 hours operation.

2 free programmable relays per line.

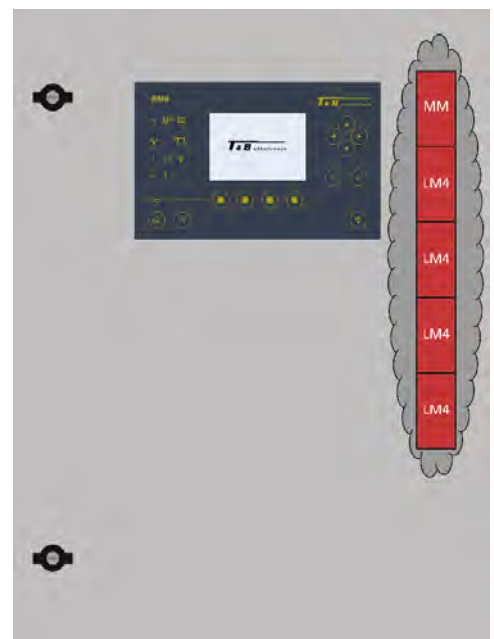
4 languages installed, maybe switched at any time.

Optional interface for data output.

Dimensions: 800 x 600 x 300 mm

Protection Classification IP 55

Item number: 1010700



SPARK DETECTION UNIT BM 6-36/0

Microprocessor-controlled spark alarm unit equipped for 36 lines (no lines included, must be equipped with modules as required).

For connection of T&B spark detectors, smoke detectors, thermo detectors, flame detectors and manual buttons. Display of alarms, number of sparks, extinguishing time, activated line.

Freestanding control panel.

Spark threshold programmable for activation of extinguishing system.

Log of 2500 events in the memory.

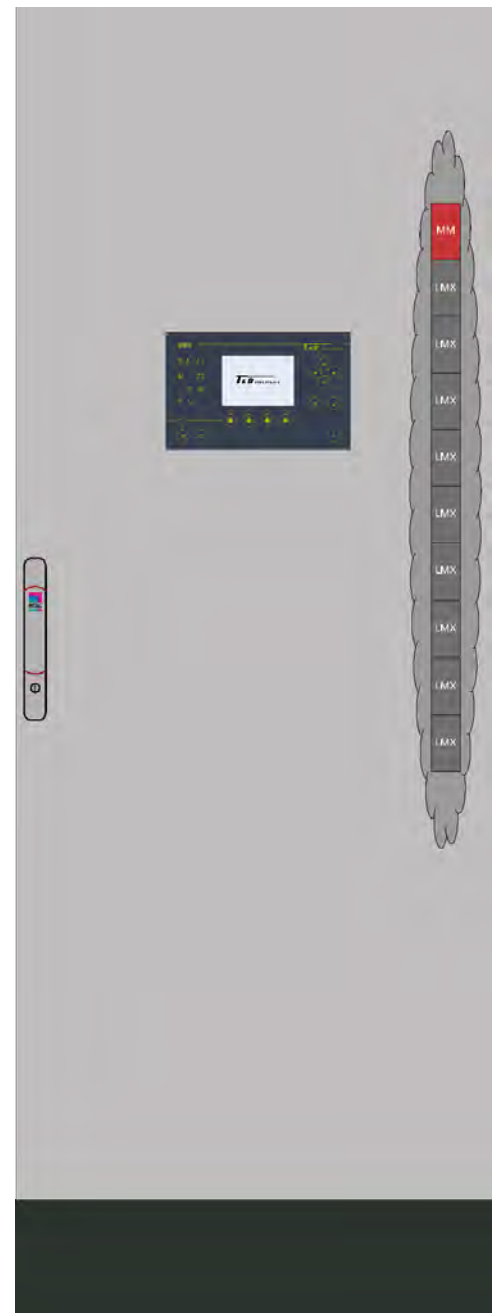
Built in emergency power supply for up to 4 hours operation.

72 free programmable relays.

4 languages installed, maybe switched at any time.

Optional interface for data output.

Item number: 1011700



EXTERNAL CONTROL AND DISPLAY PANEL BM6 IN DESK CASE

The external control and display panel enables a spark detection unit to be operated from a remote location.

Dimensions: 403 x 290 x 150 mm

Protection Classification: IP 20

Item number: 1015714



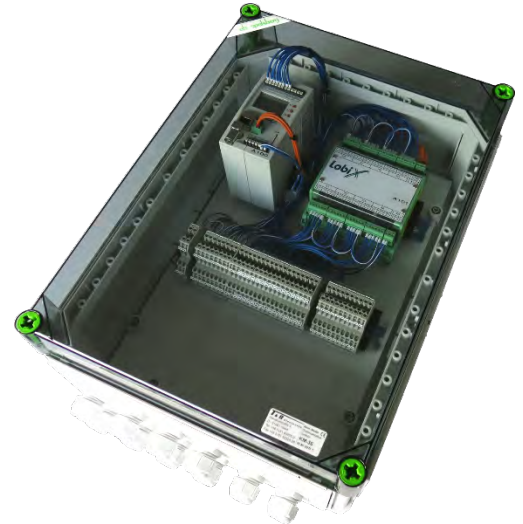
ALARM HORN / FLASHLIGHT H4/B4

Alarm unit for spark alarms or faults.
Item number: 1095700



DIAL-UP UNIT KM-4 OR KM-36

Module for transmission of events as they occur via SMS, e-mail or fax. Up to 8 receivers (cyclic processing).
Four digital inputs with freely configurable message text, which can be used for transmission of fault and alarm messages.
With its own housing 330 x 180 x 230 mm
Ambient temperature: -20 ° C to + 60 ° C
Incl. external antenna (3m cable)
For this purpose, required on site:
- SIM card (Mini-SIM / UICC)
- E-mail address without SSL encryption and login information.
When selecting the network operator's SIM card, make sure that on site an adequate mobile network strength is present.
Item number: 1085700



UPGRADE KIT BM6 PERFORMANCE LEVEL C

To comply with EN 12779
"Safety of woodworking machines - Chip and dust extraction systems with fixed installation - Safety requirements"
Item number: 1015717

Zertifikat



Nr.: 968/FSP 1418.01/21

Prüfgegenstand	Funkenmelder innerhalb der Funkenmeldezentrale BM6 in den Versionen BM6-2, BM6-4, BM6-16, BM6-36	Zertifikatsinhaber	T&B electronic GmbH Industriestraße 3 31061 Alfeld Germany
Typbezeichnung	FSK-4, FSL-4, FST-4, FSK-4 ATEX, FSL-4 ATEX, FST-4 ATEX inklusive KK3 und KK3 ATEX Kernkisten		
Prüfgrundlagen	EN ISO 13849-1:2015		
Bestimmungsgemäße Verwendung	Die Sicherheitsfunktion der Funkenmelder und der Funkenmeldezentrale ist die Detektion infrarotabstrahlender Partikel oder Körper. Die Funkenmelder können in Sicherheitsanwendungen mit den Funkenmeldezentralen BM6, BM6-2, BM6-4, BM6-16, BM6-36 bis PL c nach EN ISO 13849-1 und im Anwendungsbereich der EN 12779 eingesetzt werden.		
Besondere Bedingungen	Die Hinweise der zugehörigen Bedienungs- und Betriebsanleitung, die T&B Planungs- und Einbauanleitung, die projektspezifische Installationsanleitung und die VGS-Richtlinien 2106 sind zu beachten. Zusätzlich zum Alarmrelais ist eine Auswertung des Störungsrelais zwingend erforderlich.		

Der Ausstellung dieses Zertifikats liegt eine Prüfung zugrunde, deren Ergebnisse im Bericht Nr. 968/FSP 1418.01/21 vom 12.08.2021 dokumentiert sind.
Dieses Zertifikat ist nur gültig für Erzeugnisse, die mit dem Prüfgegenstand übereinstimmen.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein 11709 Köln
Zertifizierungsstelle Safety & Security for Automaten & Grid

Köln, 25.08.2021



Dipl.-Ing. Gebhard Bouwer

www.fs-products.com
www.tuv.com



Precisely Right.

Next page: **Spark detectors and equipment** →

Spark detectors and equipment

SPARK DETECTOR FSK-4

Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3. Maximum ambient and product temperature may not exceed 60°C.

(Also available as ATEX type).

Item number: 1531701



SPARK DETECTOR FSK-4 ATEX

Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 ATEX.

Maximum ambient and product temperature may not exceed 60°C.

For mounting in Zone 20.

Item number: 1532701



SPARK DETECTOR FSK-4 IECEX

Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 ATEX.

Maximum ambient and product temperature may not exceed 60°C.

For mounting in Zone 20.

Item number: 1550710



HT-ADAPTER (FLEXIBLE) LL500 FSK

Including holder made of stainless steel.

Flexible fibre optic arm for decoupling the FSK detector at temperatures up to 250 ° C.

Insensitive to acid, consisting of metal stainless steel hose

Fibre optic diameter 15 mm

Item number: 1591707



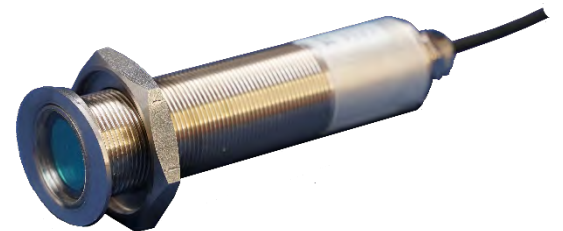
SPARK DETECTOR FST-4

Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3. For use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

(Also available as ATEX type).

Item number: 1533701



SPARK DETECTOR FST-4 ATEX

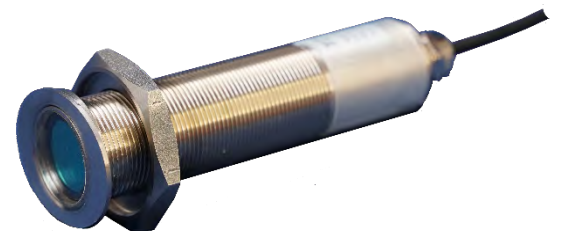
Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 ATEX.

For use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

For use in Zone 20.

Item number: 1534701



SPARK DETECTOR FST-4 IECEX

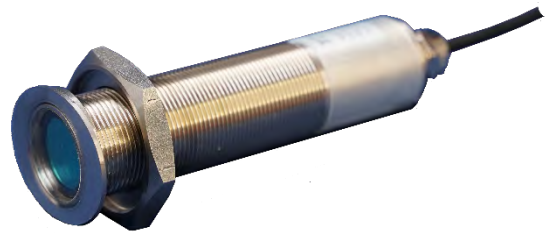
Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 ATEX.

For use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

For use in Zone 20.

Item number: 1550712

**HT-ADAPTER (FLEXIBLE) LL500 FST**

Including holder made of stainless steel.

For thermal decoupling of the detector type FST-..., total length 500 mm. For screwing in front of the spark detector FST-...

Complete with mounting bracket for mounting. Use up to 300°C.

Item number: 1591706

**HT-ADAPTER FOR FST INELASTIC**

High temperature adapter for decoupling of the detector type FST-..

For screwing in front of the spark detector FST-...

Use up to 300°C

Item number: 1591703

**EMBER PARTICLE DETECTOR FST-3 LT**

Spark detector to detect ember particles above 100°C with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 lt.

For use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

Item number: 1563701

**SPARK DETECTOR FST-6**

Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3.

For use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

(Also available as ATEX or VdS compliant type).

Without VdS approval.

Item number: 1548701

**SPARK DETECTOR FST-6 ATEX**

Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 ATEX.

For use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

For use in Zone 20.

Without VdS approval.

Item number: 1549701



SPARK DETECTOR FST-6 IECEX

Spark detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 IECEX.

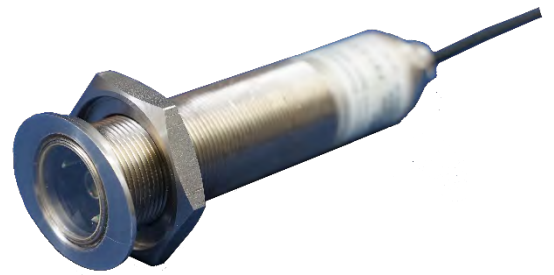
For use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

For use in Zone 20.

Without VdS approval.

Item number: 1549701

**SPARK DETECTOR FSM-6**

Multichannel detector for detection of sparks and embers from a temperature of 250 °.

Not for use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

Attention: Without VdS approval.

(Also available as ATEX type).

Item number: 1561701

**SPARK DETECTOR FSM-6 ATEX**

Multichannel detector for detection of sparks and embers from a temperature of 250 °.

Not for use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

Attention: Without VdS approval.

For use in Zone 20.

Item number.: 1562701

**SPARK DETECTOR FSM-6 IECEX**

Multichannel detector for detection of sparks and embers from a temperature of 250 °.

Not for use in areas with daylight incidence.

Maximum ambient and product temperature may not exceed 60°C.

Attention: Without VdS approval.

For use in Zone 20.

Item number.: 1550713

**SPARK DETECTOR FSL-4**

Spark detector with mounting clamp. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3.

Up to 3 light conductors may be attached.

(Also available as ATEX or VdS compliant type).

Item number: 1535701

**SPARK DETECTOR FSL-4 ATEX**

Spark detector with mounting clamp. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3.

Up to 3 light conductors may be attached.

For use in Zone 20.

(Also available as VdS compliant type).

Item number: 1536701



LIGHT CONDUCTOR LL500 INCL. FASTENER FOR FSL

Optical fibre for thermal decoupling of the detector with a metal sheath, total length 500 mm.
To screw in the spark detector FSL.
Complete with mounting bracket for mounting. Use up to 300°C.
Item number: 1591705



LIGHT CONDUCTOR LL2000 INCL. FASTENER FOR FSL

Optical fibre for thermal decoupling of the detector with a metal sheath, total length 2000 mm.
To screw in the spark detector FSL.
Complete with mounting bracket for mounting. Use up to 300°C
Item number: 1591704



AIR PURGE FOR LIGHT CONDUCTOR

Adapter for applying compressed air before the Light conductor.
The air consumption of an air purge at 1 bar is approximately 70 l / min.
The air hose must have an external diameter of 6 mm.
The compressed air must have 3 to DIN ISO 8573-1 purity class.
Item number: 1590702



AIR PURGE FOR SPARK DETECTOR

Adapter for applying compressed air before the spark detector.
The air consumption of an air purge at 1 bar is approximately 70 l / min.
The air hose must have an external diameter of 6 mm.
The compressed air must have 3 to DIN ISO 8573-1 purity class.
Item number: 1590701



CONNECTION BOX KK3

For connection of 2 spark detectors, circuit board with 2 sockets.

Complete with cable glands.

(Also available as ATEX type).

Item number: 2010701

**CONNECTION BOX KK3 ATEX**

For connection of 2 spark detectors, circuit board with 2 sockets.

Complete with cable glands.

For mounting in Zone 21.

Item number: 2011702

**CONNECTION BOX KK3 IECEx**

For connection of 2 spark detectors, circuit board with 2 sockets.

Complete with cable glands.

For mounting in Zone 21.

Item number: 1550714

**CONNECTION BOX KK3 LT**

For connection of 2 spark detectors type FST-3 Lt, circuit board with 2 sockets.

Complete with cable glands.

Item number: 2010703

**WELD-ON NUT FOR SPARK DETECTORS**

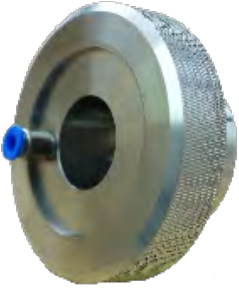
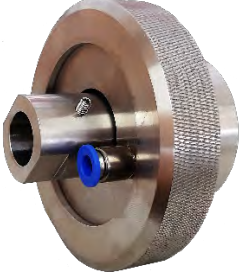
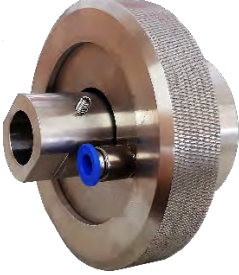
Specially prepared weld-on nut for T & B spark detectors, ensures flush termination of the detector optics on the pipe wall. For use with wall thicknesses > 3mm.

Optionally applicable with air purge.

On site, the weld nut must be placed on the protective object.

Item number: 1501709



<p>PURGE AIR ADAPTER FBV-1 The air consumption of a purge air adapter at 1 bar is approx. 70 l/min. The compressed air hose must have an outer diameter of 6 mm. The compressed air must have purity class 3 according to DIN ISO 8573-1. Item number: 1590401</p>	
<p>PURGE AIR ADAPTER FBV-1/2 LL500 FSK The air consumption of a purge air adapter at 1 bar is approx. 70 l/min. The compressed air hose must have an outer diameter of 6 mm. The compressed air must have purity class 3 according to DIN ISO 8573-1. Item number: 1590402</p>	
<p>PURGE AIR ADAPTER FBV-1/3 LL500 FST The air consumption of a purge air adapter at 1 bar is approx. 70 l/min. The compressed air hose must have an outer diameter of 6 mm. The compressed air must have purity class 3 according to DIN ISO 8573-1. Item number: 1590403</p>	

Next page: **Temperature monitoring devices** →

Temperature monitoring devices

THERMO DETECTOR THM3 90°C

Thermo detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3. (Also available as ATEX type).
Item number: 1527701



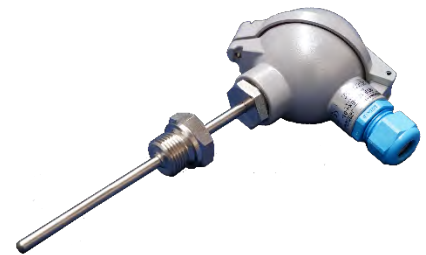
THERMO DETECTOR THM3 90°C ATEX

Thermo detector with quick-action fixture. With pre-assembled cable (2m) and plug for connection on circuit board in the KK3 ATEX.
For mounting in Zone 22.
Item number: 1528700



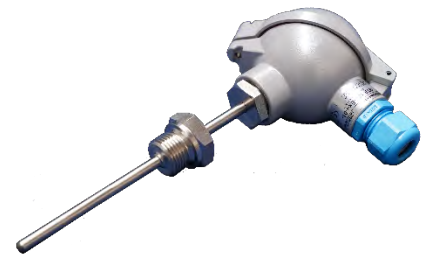
TEMPERATURE SENSOR PT100 GTF 103 ATEX

Standard signal: With output signal 4 ... 20 mA
Sensor element: Pt100 (4-wire) DIN class B
Measuring range: -200 ° C
Measuring range: 250 ° C
Ambient temperature: -20 ... +40 ° C
For use in Zone 20
Item number: 1571704



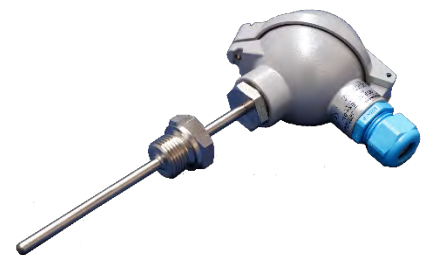
TEMPERATURE SENSOR PT100 ATEX ZONE 1 + 2

Standard signal: With output signal 4 ... 20 mA
Sensor element: Pt100 (4-wire) DIN class B
Measuring range: -200 ° C
Measuring range: 250 ° C
Ambient temperature: -20 ... +40 ° C
For use in gas zone 1 + 2
Item number: 1571701



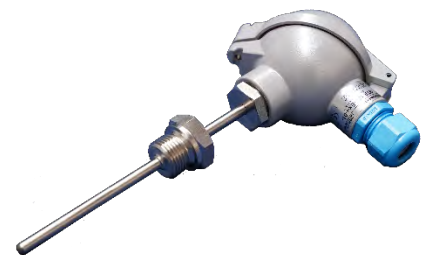
TEMPERATURE SENSOR PT100 GTF 103

Standard signal: without output signal
Sensor element: Pt100 (4-wire) DIN class B
Measuring range: -50 ... +400 ° C
Item number: 1571705



TEMPERATURE SENSOR PT100 IECEX

Type Screw-in resistance thermometer for process technology with continuous protection tube
Application temperature -50 ..+600°C
(thin-film temperature sensor)
Measuring insert 1x Pt100 in four-wire circuit
Tolerance/class B (-50 to +500°C)
Ambient temperature: -20 ... +60 ° C
Diameter 6 mm
Fitting length 100.0 mm
IECEX approval EX approval acc. to IECEx SEV 15.0006
Item number: 1571707



<p>TEMPERATURE DETECTOR M8 FOR MONITORING OF MECH. DRIVES Type: Screw-in resistance thermometer with connecting cable and threaded protective tube Operating temperature: -50 up to + 300°C Diameter: Ø M8 Installation length: 25.00 mm Process connection: screw connection M8 (x1,25) Cable length: 2500 mm Item number: 1550701</p>	
<p>TEMPERATURE DETECTOR M10 FOR MONITORING OF MECH. DRIVES Type: Screw-in resistance thermometer with connecting cable and threaded protective tube Operating temperature: -50 up to + 300°C Diameter: Ø M8 Installation length: 25.00 mm Process connection: screw connection M10 (x1,25) Cable length: 2500 mm Item number: 1550702</p>	
<p>TEMPERATURE DISPLAY DIGITAL JUMODI ECO Sensor type: PT 100 Measuring range: -200-600°C Changeover contact (potential free) 10A/250V Depth:56mm Length x Width: 69x28,5mm Item number: 1572700</p>	

Next page: **Flame detectors** →

Flame detectors

FLAME DETECTOR UV-03

To detect open flames incl. 2m cable.
 Angle of view: 110°C
 For connecting to BM6 via KK3 and WR module
 Item number: 1583700



FLAME DETECTOR UV-03.LU

To detect open flames incl. 2m cable.
 incl. air purge for keeping clean the optics
 Angle of view: 35°C
 For connecting to BM6 via KK3 and WR module.
 Item number: 1583702



FLAME DETECTOR UV-01 ATEX

To detect open flames incl. 10 m cable.
 For mounting in Zone 20.
 Item number: 1584702



CONNECTION BOX ATEX FOR FLAME DETECTORS

For connection of 2 flame detectors, circuit board with 2 sockets.
 Complete with cable glands.
 For mounting in Zone 21.
 Item number: 2022701



CONNECTION BOX FOR FLAME DETECTORS

For connection of 2 flame detectors.
 Complete with cable glands.
 Item number: 2021701



Next page: **Automatic extinguishers** →

Automatic extinguishers

AUTOMATIC EXTINGUISHING SP1D-R VA-24V-M

For duct diameters up to 400 mm.
 Consisting of ball valve, solenoid valve, strainer and one extinguishing nozzle with special quick-fixing.
 (Also available as ATEX type).
 Item number: 2501724



AUTOMATIC EXTINGUISHING SP1D-R VA-24V-M ATEX

For duct diameters up to 400 mm.
 Consisting of ball valve, solenoid valve, strainer and one extinguishing nozzle with special quick-fixing.
 For mounting in Zone 21.
 Item number: 2501824



AUTOMATIC EXTINGUISHING F-SP1D-R VA-24V-M

Extinguishing device with real-time extinguishing nozzle for instantaneous extinguishing.
 For duct diameters up to 400 mm.
 Consisting of ball valve, solenoid valve, strainer and one real-time extinguishing nozzle with special quick-fixing.
 Without VdS approval.
 (Also available as ATEX version).
 Item number: 2502724



AUTOMATIC EXTINGUISHING F-SP1D-R VA-24V-M ATEX

Extinguishing device with real-time extinguishing nozzle for instantaneous extinguishing.
 For duct diameters up to 400 mm.
 Consisting of ball valve, solenoid valve, strainer and one real-time extinguishing nozzle with special quick-fixing.
 Without VdS approval.
 (Also available as ATEX version).
 Item number: 2502824



AUTOMATIC EXTINGUISHING SP2D-R VA-24V-M

For duct diameters up to 800 mm.
 Consisting of ball valve, solenoid valve, strainer and two extinguishing nozzles with special quick-fixing.
 (Also available as ATEX type).
 Item number: 2505724



AUTOMATIC EXTINGUISHING SP2D-R VA-24V-M ATEX

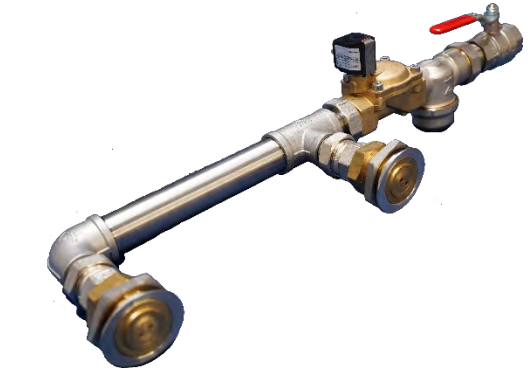
For duct diameters up to 800 mm.
 Consisting of ball valve, solenoid valve, strainer and two extinguishing nozzles with special quick-fixing.
 For mounting in Zone 21.
 Item number: 2505824

**AUTOMATIC EXTINGUISHER F-SP2D-R VA-24V-M**

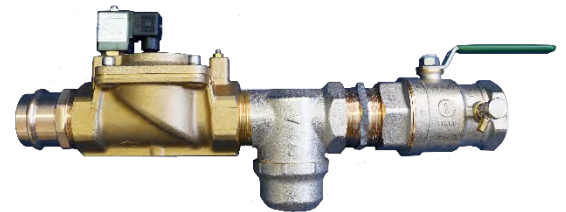
Extinguishing device with real-time extinguishing nozzles for instantaneous extinguishing.
 For duct diameters up to 800 mm.
 Consisting of ball valve, solenoid valve, strainer and two real-time extinguishing nozzles with special quick-fixing.
 Without VdS approval.
 (Also available as ATEX version).
 Item number: 2502725

**AUTOMATIC EXTINGUISHER F-SP2D-R VA-24V-M ATEX**

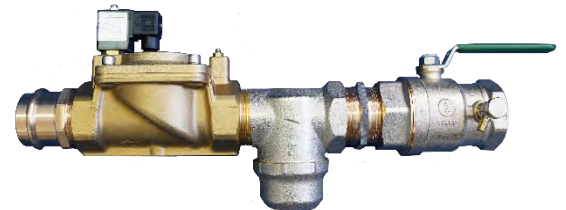
Extinguishing device with real-time extinguishing nozzles for instantaneous extinguishing.
 For duct diameters up to 800 mm.
 Consisting of ball valve, solenoid valve, strainer and two real-time extinguishing nozzles with special quick-fixing.
 Without VdS approval.
 For mounting in Zone 21.
 Item number: 2502825

**SOLENOID VALVE SET 2"**

Consisting of:
 1x 2" solenoid valve
 1x 2" dirt trap
 1x 2" ball valve
 1x 2" double nipple
 2x transition piece 2" to DN50 PP
 Item number: 2520711

**SOLENOID VALVE SET 2" ATEX**

Consisting of:
 1x 2" solenoid valve ATEX
 1x 2" dirt trap
 1x 2" ball valve
 1x 2" double nipple
 2x transition piece 2" to DN50 PP
 Item number: 2520811

**DFW FLOW SWITCH FOR EXTINGUISHER SP1/SP2**

required for 5 valves and more to complain with VdS 2106
 2021-05 (05) chapter 7
 (also available with ATEX certification)
 Item number: 2530712



DFW FLOW SWITCH FOR EXTINGUISHER SP1/SP2 ATEX
required for 5 valves and more to complain with VdS 2106
2021-05 (05) chapter 7
certificated for ATEX Zone 21
Item number: 2530713



BALL VALVE MONITORING INCL. CONNECTION BOX
acc. VdS 2106 2021-05 (05) chapter 8.2 and 8.3
(also available with ATEX certification)
Item number: 2501704



BALL VALVE MONITORING INCL. CONNECTION BOX ATEX
acc. VdS 2106 2021-05 (05) chapter 8.2 and 8.3
certificated for ATEX Zone 21
Item number: 2501705



Next Page: **Water supply** →

Water supply

PRESSURE BOOSTER SYSTEM WDS 300

Contains pressure vessel 300l, pump with 240 l/min delivery rate, pressure switch DS1, flow switch DFW, pressure switch DS3, high pressure hose and pump control.
Item number: 3005700



PRESSURE BOOSTER SYSTEM WDS 600

Contains pressure vessel 500l, pump with 240 l/min delivery rate, pressure switch DS1, flow switch DFW, pressure switch DS3, high pressure hose and pump control.
Item number: 3010700



PRESSURE BOOSTER SYSTEM WDS 600/1

Contains pressure vessel 500l, pump with 360 l/min delivery rate, pressure switch DS1, flow switch DFW, pressure switch DS3, high pressure hose and pump control.
Item number: 3015703



PRESSURE BOOSTER SYSTEM WDS 100

If only using automatic extinguisher type SP1D-R max. 5 lines.
The tube dimensions should be selected so that the pressure loss is max. 1.5 bar. For example, 20 m DN 32 at 10 m height of the extinguishing using WDS 100.

Max. Flow rate 60 l / min at 8,5bar
Dimensions: (1005 x 1005 x 500) mm

For a direct water connection, the DVGW guideline DIN EN 1988 must be observed and an agreement must be made with the local water supplier and the installation company.
Item number: 3001707



TEMPERATURE SENSOR FOR PUMP

Optional temperature monitoring of the pump for an early alarm in the event of overheating due to continuous operation.
Item number: 3025704



FLOW PRESSURE CONTROL KIT

Kit for the control of the flow pressure on the hydraulically most unfavourable spark extinguishing part.
According to the specification from VdS guideline VdS 2106 - 7.3.
Item number: 2535700



WATER TANK "ROUND" 600L FOR WDS 300 / WDS 600 / WDS 100

To ensure the required flow rate of the pump.
Bottom flat, standing all over.
Closed version, with inspection opening d400 with plug-in cover in the roof.
Material: PE100 made of welded sheets suitable for pressureless operation.

Colour: black
Medium: water
Temperature: indoor temperature
Net capacity: 0.6 m³
Inner diameter: 760 mm
cyl. height: 1300 mm
Wall thickness: 5 mm

When connecting to the drinking water network, EN 1717 and DIN 1988 must be observed for biological separation.
Item number: 3031700 for WDS 300 or WDS 600
Item number: 3030700 for WDS 100



WATER TANK "ROUND" VB1 1000L FOR WDS 600/1

To ensure the required flow rate of the pump.
Bottom flat, standing all over.

Closed version, with inspection opening d400 with plug-in cover in the roof.

Material: PE100 made of welded sheets suitable for pressureless operation.

Colour: black
Medium: water
Temperature: indoor temperature
Net capacity: 1.0 m³
Inner diameter: 780 mm
cyl. height: 2200 mm
Wall thickness: 5 mm

When connecting to the drinking water network, EN 1717 and DIN 1988 must be observed for biological separation.
Item number: 3033701



BACKFLOW PREVENTER ST3 FOR WATER TANK VB1

The backflow preventer is used to separate the drinking water from the extinguishing water in accordance with EN 1717. It is installed between the on-site drinking water connection and the water tank.

Separation of drinking water from the extinguishing water for spark extinguishing system is mandatory in the Drinking Water Ordinance.

The backflow preventer is designed for liquid Category 5 according to DIN EN 1717 with the following features:

- electronic control
- corrosion-free, self-priming, multi-stage horizontal centrifugal pump
- patented acoustic enclosure made of EPP
- integrated drinking water feed "free run" in accordance with DIN EN 1717 (Type AB)
- little need for space
- dry-running protection
- pressure gauge

The signal exchange with the spark extinguishing control panel is done via the pump control of the pressure boosting system.

The backflow preventer is pre-assembled on a mounting plate. It can be installed on a wall near the water tank.

Item number: 3045720



SOLENOID VALVE FLUX

Solenoid valve to flush the supply line to the water tank or backflow preventer according to DIN 1988:600.

Item number: 3050700

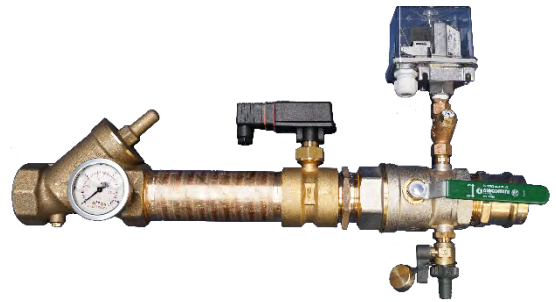
**CONNECTION ASSEMBLY FLA TO SPRINKLER SYSTEM**

Prefabricated assembly for water supply via an existing sprinkler system.

Fully assembled, consisting of:

- Flow monitor DFW 2"
- Ball valve for draining
- Ball valve 2" to shut off
- Backflow preventer 2"
- VdS safety pressure switch DS3
- Transition for stainless steel pipe

Item no.: 3055702



Next page **Frost protection** →

Frost protection

HEATING TAPE CONTROL UNIT HBW/3 WITH TH2

Controller for 3 heating circuits, with pipe surface thermostat for monitoring the pipe temperature.

Item number: 3501701



HEATING TAPE CONTROL UNIT HBW/6 WITH TH2

Controller for 6 heating circuits, with pipe surface thermostat for monitoring the pipe temperature.

Item number: 3505701



OUTDOOR THERMOSTAT TH1

To activate the heating tape control unit at frost.

Item number: 3525701



HEATING TAPE HB1-10 W/M TRIC

Item number: 3520701



HEATING TAPE CONNECTION SET AG2

To connect the heating tape, complete with cable glands and shrink tubing connection set.

Item number: 3510702



INSULATION BOX TYPE C

Two-part half-shell case made of sheet metal with quick release to insert insulation for the SP1D-R
Item number: 3515803



INSULATION BOX TYPE D

Two-part half-shell case made of sheet metal with quick release to insert insulation for the SP2D-R
Item number: 3515804



Next page: **Other components** →

Other components

BYPASS SMOKE DETECTOR BRM2

with air channel sampling pipe (0.6 m long) for the early detection of smouldering and fires with smoke
Item number: 1585700



ADICOS FIRE-GAS DETECTOR

GSME detector unit equipped with a triple-semiconductor gas sensor consisting of a hydrogen-carbon monoxide and two semiconductor sensors, which are operated alternately. The CO-semiconductor gas sensors have a filter which is heated alternately in order to ensure the optimal duration function. Equipped with MBus module and a free slot for BMZ modules. Early detection in the entire range of storage / production facilities for paper, wood, flour, grain, garbage, etc. Suitable for dust and moisture stress environments. Aluminium die in explosion-proof housing. Special cable pre-assembled. Low power consumption. Central data collection. Item number: 1090701



ADICOS CONNECTION BOX

Pre-assembled connection assembly for wiring the ADICOS fire gas detector, plastic housing (IP54), 5 plastic screw connections M 20, design for ATEX Zone 22, II 3D Ex tc IIIC T60 ° C Dc IP6X according to RL 2014/34 / EU
Item number: 1090750



ADICOS CONTROL CABINET

Basic version for max. 4 detectors
The recorded fire gas values are stored on the integrated PC.
These values can be used to adjust alarm values according to local conditions.
Item number: 1090700

**MANUAL ACTUATION BUTTON IP 52 CO2**

For manual extinguishing, connection via WR module.
Item number: 1575701

**WR-MODULE**

Input module for digital signals (manual buttons, thermo detectors, smoke detectors, temperature detectors)
Item number: 1095740

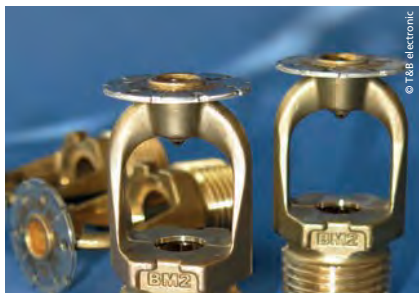
**QUICK-CLOSING SLIDE**

single acting, with spring return mechanism closed in rest position.
Control pressure max. 6 bar.
With special quick-opening valve and with position limit switches for sensing the slide position.
Available in various sizes in grey cast iron or stainless steel.
Reaction time: project-related
Item number: project-related



Further product portfolio

Our Products – Your Safety



VdS-certified water spray extinguishing systems

Water spray extinguishing systems are used in areas where there is a risk of rapidly spreading fires and act on the object to be protected quickly and extensively with extinguishing water.



Infrared Early Fire Detection Systems (VdS 3189)

Camera system for area-wide detection of embers and smoldering fires at long range.



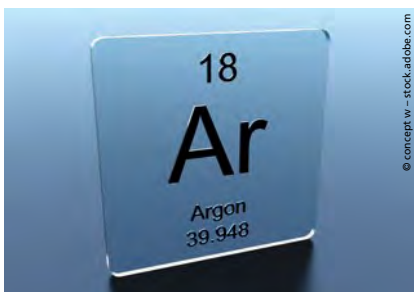
Fire alarm systems (DIN 14675)

Fire alarm systems are permanently installed manual or automatic systems for early fire detection, warning of the persons concerned and rapid transmission of the fire alarm to a service provider.



VdS-certified spark extinguishing system

Fully automatic system that detects the smallest ignition potentials in transport systems and extinguishes them in the range of milliseconds.



Argon extinguishing system (VdS 2380 / 3445)

Fully automatic extinguishing system in which the formation of fire is detected and eliminated by oxygen displacement.



Customer-specific fire protection concepts

As a VdS-approved installer, T&B will work closely with you to create a comprehensive protection concept tailored to your requirements.

You have questions or would like to get advice? Just get in touch with us:



+49 (0) 5181-90991-12



sales@tbelectronic.de