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Bosch Professional 0601081700

Bosch Professional GMS 120-27 Detector User Manual

Your guide to safe and effective use of the GMS 120-27 tracking device.

1. INTRODUCTION

The Bosch Professional GMS 120-27 Detector is a precision instrument designed for reliable detection of various materials within walls, ceilings, and floors. It accurately locates magnetic metals, non-magnetic metals, live electrical cables, and wooden substructures, helping to prevent damage during drilling or renovation work. This manual provides essential information for the safe and efficient operation of your device.



Figure 1: Front view of the Bosch Professional GMS 120-27 Detector, showcasing its display and control buttons.

2. SAFETY INFORMATION

Always observe the following safety precautions to ensure safe operation and prevent injury or damage to the device.

- Read all instructions carefully before using the detector.
- Do not open the device. Repairs should only be performed by qualified personnel.
- Avoid using the detector in wet or damp conditions.
- Ensure the work area is well-lit.

- Be aware of potential hazards such as live electrical wires, gas pipes, and water pipes. The detector helps identify these, but always exercise caution.
- Do not rely solely on the detector for safety. Always cross-check information and use common sense.
- Keep the device clean and free from dust and debris.
- Use only specified batteries (2 x AA alkaline batteries).

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Bosch Professional GMS 120-27 Detector
- Protective Case
- 2 x AA Alkaline Batteries
- User Manual (this document)



Figure 2: Contents of the Bosch GMS 120-27 package, including the detector, protective case, and batteries.

4. PRODUCT FEATURES

The GMS 120-27 Detector is equipped with advanced features for precise and user-friendly operation:

- **Quick Location:** Enables easy location of metal, live cables, and wooden substructures for accurate drilling.

- **User-Friendly Interface:** Provides clear information through simplified mode selection, a center display, and material identification. The detector indicates whether the object is magnetic or non-magnetic metal, a live line, or non-metallic material.
- **Tri-Colour Display:** An LED ring around the marking opening glows red when an object has been detected, yellow when approaching an object, and green if no object was found.
- **Robust Design:** The GMS 120-27 wall scanner features a shock-absorbing rubber housing and IP 54 protection, making it suitable for construction site use.
- **Dual Power Source:** Compatible with both 2 x AA alkaline batteries and a 3.7V Bosch rechargeable battery (not included).

5. SETUP

5.1 Battery Installation

The GMS 120-27 Detector operates on 2 x AA alkaline batteries. For optimal performance, ensure batteries are correctly inserted.

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover downwards to open the compartment.
3. Insert the 2 x AA batteries, ensuring the correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover by sliding it upwards until it clicks into place.



Figure 3: Rear view of the detector with the battery compartment open, illustrating correct battery insertion.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- To power on the device, press the red power button (O).
- To power off, press and hold the red power button (O) for a few seconds until the display turns off.

6.2 Mode Selection

The GMS 120-27 offers different detection modes for various materials. Use the mode selection buttons to choose the appropriate mode:

- **Metal Mode:** For detecting magnetic and non-magnetic metals. (Icon: I with lightning bolt)
- **Live Wire Mode:** For detecting live electrical cables. (Icon: I with lightning bolt)
- **Wood/Drywall Mode:** For detecting wooden substructures behind drywall. (Icon: I with wood grain)



Figure 4: The detector's display indicating detection status and selected mode.

6.3 Detection Process

1. **Select Mode:** Choose the appropriate detection mode based on the material you expect to find.
2. **Place Device:** Place the detector flat against the surface to be scanned. Ensure full contact.
3. **Scan Surface:** Slowly move the detector across the surface in a straight line. The LED ring will change color to indicate detection:
 - **Green:** No object detected.
 - **Yellow:** Approaching an object.
 - **Red:** Object detected.
4. **Pinpoint Location:** When the LED ring turns red, move the detector back and forth over the area to pinpoint the exact center of the object. The center display will also provide an indication.
5. **Mark Location:** Once the object's center is identified, use a pencil to mark the spot through the marking opening on the detector.



Figure 5: User demonstrating the detection process on a wall, ensuring careful scanning.



Figure 6: Another example of the detector in use, scanning a wall for hidden objects.

DETECTOR DE MATERIAIS

GMS 120-27

ATÉ 3 ANOS DE GARANTIA¹

¹ Entenda como registrar a garantia adicional de 1 ano no app BeConnected disponível no [App Store](#) ou [Google Play](#)

REVESTIMENTO DE BORRACHA

MAIS ERGONÔMICO E ROBUSTO PARA O USUÁRIO.

DISPLAY COM FOCO NO ESSENCIAL

PARA LEITURA SIMPLIFICADA DOS RESULTADOS.

COMPATÍVEL COM BATERIA 3,7 V (não acompanha)

DUPLA FONTE DE ENERGIA

PERMITE A UTILIZAÇÃO TANTO DE PILHAS COMO DE BATERIA RECARREGÁVEL 3,7 V BOSCH.

INDICADO PARA USO EM SUPERFÍCIES MACIÇAS TIJOLO MACIÇO, CONCRETO SECO E DRYWALL.

MARCAÇÃO DE FURO

COM CÓDIGO DE CORES PARA TRANSFERIR RAPIDAMENTE OS RESULTADOS DA MEDIÇÃO PARA A PAREDE.

MODO DE SELEÇÃO SIMPLIFICADO

E ÍCONES APRIMORADOS AUMENTAM A FACILIDADE DE USO.



Figure 7: Marking the precise location of a detected object through the detector's marking opening.

7. MAINTENANCE

7.1 Cleaning

To ensure the longevity and accuracy of your detector:

- Wipe the device regularly with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure no moisture enters the device.
- Keep the sensor area clean and free from dust or debris.

7.2 Storage

- Store the detector in its protective case when not in use.
- Store in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- Remove batteries if the device will not be used for an extended period to prevent leakage.

8. TROUBLESHOOTING

If you encounter issues with your GMS 120-27 Detector, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Device does not turn on.	Low or dead batteries; incorrect battery insertion.	Replace batteries with new AA alkaline batteries; ensure correct polarity.
Inaccurate detection.	Surface not flat; rapid scanning; interference from other devices; sensor dirty.	Ensure full contact with surface; scan slowly; move away from other electronics; clean sensor area.
LED ring always red/yellow.	Strong interference; device malfunction.	Try scanning in a different location; if problem persists, contact customer support.
Cannot detect wood.	Incorrect mode selected; wood too deep or behind dense material.	Ensure Wood/Drywall mode is selected; detection depth for wood is limited to 30 mm.

9. SPECIFICATIONS

Technical specifications for the Bosch Professional GMS 120-27 Detector:

Attribute	Value
Model Number	0601081700
Max. Detection Depth (Non-Magnetic Metal)	120 mm
Max. Detection Depth (Magnetic Metal)	100 mm
Max. Detection Depth (Voltage-Conducting Cable)	50 mm
Max. Detection Depth (Wood)	30 mm
Power Source	2 x 1.5V LR6 (AA) batteries or 1 x 3.7V Li-ion battery (not included)
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-20 °C to +70 °C
Dimensions (L x W x H)	186 x 86 x 33 mm (7.32 x 3.39 x 1.3 inches)
Weight	Approx. 0.24 kg (8.4 ounces)
Protection Class	IP 54 (dust and splash protected)



Figure 8: Dimensions of the Bosch GMS 120-27 Detector.

10. WARRANTY AND SUPPORT

Bosch Professional products are manufactured to the highest quality standards. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Bosch Professional website for detailed warranty terms and conditions specific to your region.

For technical support, service, or spare parts, please contact your local Bosch Professional service center. You can find contact information on the official Bosch Professional website or through the provided documentation.

Online Resources:

- Official Bosch Professional Website: www.bosch-professional.com
- Product Registration: Register your product online to receive updates and support.

