FOERSTER

MINEX 4.611

Metal detector for minimum-metal mines, wires and conductive objects

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Precise detection of metals, wires and conductive objects. MINEX 4.611 is a rugged metal detector designed for the reliable detection of very small metallic and near-surface objects. It is particularly suitable for locating so-called minimum-metal or "plastic" mines and extends the detection capabilities to wires and conductive objects, including components of IEDs.

Digital dual-frequency continuous wave technology ensures consistently high sensitivity to metals, wires and conductive materials. Two integrated search coils in the Double-D search head enable precise pinpointing and support detection along large metal structures such as railway tracks, fences or vehicles. The search head can also be rotated by 90°, allowing flexible adaptation to different search and operating positions.

Nine sensitivity ranges allow precise adjustment to the respective detection task. For challenging ground conditions, a fast ground learning function and additional noise cancelling are available.

All control and display elements are integrated directly into the handle. Tactile control buttons facilitate reliable operation even under poor visibility conditions. Detected targets are indicated by audible and visual signals as well as an additional vibration alarm in the handle. For night operations, the LED indicators can be deactivated in Military Mode. An integrated function test, malfunction alarm, low-battery indicator and Supervisor Mode further support reliable field operation.

YOUR ADVANTAGES AT A GLANCE

Extended detection capabilities: Reliable detection of metals, wires and conductive materials

High detection sensitivity: Digital dual-frequency technology for consistently high sensitivity to different types of targets

Precise pinpointing: Double-D search head for accurate target localization and detection along large metal structures

Flexible search positions: 90° rotatable search head for convenient operation while standing, kneeling or lying down

Adaptable to challenging soils: Nine sensitivity ranges, ground learning and noise cancelling for different operating conditions

Intuitive operation and target indication: Audible and visual signals, vibration alarm and tactile controls for reliable operation

High operational reliability: Integrated function test, Military and Supervisor Modes as well as malfunction and low-battery indicators

TECHNICAL INFORMATION

DIMENSIONS - DETECTOR:	— Length: 920 mm (folded: 657 mm) — Max. overall length: 1,677 mm — Width: 97 mm — Height: 253 mm (folded: 293 mm)
DIMENSIONS - SEARCH HEAD:	Oval, 210 × 285 mm
DIMENSIONS - SOFT CASE:	720 × 340 × 150 mm (H × W × D)
WEIGHT:	— 2.2 kg without batteries — 2.6 kg complete with batteries — 2.5 kg soft case
WATERPROOF - ELECTRONICS AND SEARCH HEAD:	IP 68, 2 m, 30 minutes
STORAGE TEMPERATURE (WITHOUT BATTERIES):	- 57 °C to +71 °C / - 135 °F to +160 °F
PERMISSIBLE AMBIENT TEMPERATURE RANGE:	- 37 °C to +71 °C / - 99 °F to +160 °F
POWER SUPPLY:	— 3 x 1.5 V alkaline battery — 3 x 1.2 V NiMH rechargeable batteries
BATTERY SIZE:	IEC LR/HR 20 (according to ANSI STD, size “D”)
BATTERY LIFETIME ALKALINE BATTERY:	> 40 h at an ambient temp. of +20 °C (+68 °F) (1.5 V, VARTA LONGLIFE Power)
BATTERY LIFETIME NIMH RECHARGEABLE BATTERY:	> 30 h at an ambient temp. of +20 °C (+68 °F) (1.2 V, ANSMANN-10000 mAh)
MEAN TIME BETWEEN FAILURES (MTBF):	— MIL-HDBK-217F N2 and ANSI/VITA 51.1-2013 (R2018) — NPRD-2011 for non-electronic components

CERTIFICATIONS

EMV/CE certifications

- ETSI EN 303 454 V1.1.1:2018-01
- DIN EN 50364:2019-05
- ETSI EN 301 489-1 V2.2.3
- DIN EN 55032:2016-02
- DIN EN 61000-4-2:2009-12
- DIN EN 61000-4-3:2011-04
- DIN EN 62368-1:2021-05

MIL-Standard certifications

- MIL-STD 810H Method 501.7, Procedure I - High Temperatures, Storage
- MIL-STD 810H Method 501.7, Procedure II - High Temperatures, Operation
- MIL-STD 810H Method 502.7, Procedure I - Low Temperatures, Storage
- MIL-STD 810H Method 502.7, Procedure II - Low Temperatures, Operation
- MIL-STD 810H Method 503.7, Procedure I-C - Thermal Shock
- MIL-STD-810H Method 506.6, Procedure I - Rain
- MIL-STD-810H Method 512.6, Procedure I - Submersion
- MIL-STD-810H Method 514.8, Oscillation Broadband Noise
- MIL-STD-810H Method 516.8, Drop Test
- MIL-STD-810G Method 505.5, Procedure II - Solar Radiation (continuous test solar radiation)

IMAS certification

CWA 14747-1:2003-06-01

Additional certifications

- IEC 60068-2-11:2020
- IEC 60068-2-78:2012
- IEC 60529 - Protection type test IP68
- DIN EN 60068-2-27:2010-02
- DIN EN 60068-2-1:2008-01/ -2-2:2008-05

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