FOERSTER

MINEX 4.610

Metal detector for minimum-metal mines

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Precise detection of the smallest metallic objects. MINEX 4.610 is a rugged metal detector designed for the reliable detection of very small metallic and near-surface objects. It has been specifically developed for locating so-called minimum-metal or "plastic" mines and combines high detection sensitivity with precise target pinpointing.

Dual-frequency continuous wave technology ensures consistently high sensitivity to different types of metal. 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.

Five sensitivity ranges and a fast ground learning function are available for different operating conditions. During ground learning, the detector is first calibrated to the surrounding environment and then adapted to the respective ground conditions. This supports reliable operation even on non-cooperative soils.

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.

YOUR ADVANTAGES AT A GLANCE

High detection sensitivity: Dual-frequency technology for consistently high sensitivity to different types of metal

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: Five sensitivity ranges and ground learning function for different ground conditions

Intuitive operation: Integrated tactile controls in the handle for reliable operation even under poor visibility conditions

Clear target indication: Audible and visual signals as well as a vibration alarm for reliable target detection

Designed for demanding operations: Military Mode for night operations and rugged, waterproof design rated to IP68

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 × 1.5 V alkaline battery — 3 × 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
NATO STOCK NUMBER:	— MINEX 4.610, 2297493, Hardcase, 6665-12-429-4759 — MINEX 4.610, 2292181, Softcase, 6665-12-429-4758

CERTIFICATIONS

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)

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

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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The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.

Headquarters
Institut Dr. Foerster GmbH & Co. KG

In Laisen 70
72766 Reutlingen
Germany

+49 7121 140 0
info@foerstergroup.com

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