

FUNCTIONAL SAFETY CERTIFICATE

CERTIFICATO – ZERTIFIKAT – CERTIFICADO – CERTIFICAT

The product:

TEZE Mobile Network Monitoring Probe

Manufactured by:

Cellnex Italia S.p.A.
Via Cesare Giulio Viola 43
00148, Rome (RM)
Italy

suitable for the following safety function(s):

detect the absence of the mobile network and notify the external server of the absence

has been assessed per the relevant requirements of

IEC 61508:2010 Parts 1 to 3

and meets the requirements providing the following:

Systematic Capability:

The compliance with the requirements for the avoidance of systematic faults and the requirements for the control of systematic faults have been achieved following the compliance route 1_S.

SC 1

Hardware Safety Integrity:

The constraints on hardware safety integrity have been verified in order to achieve a sufficiently robust architecture taking into account the level of element and subsystem complexity following the compliance route 1_H.

Type
B

Random Safety Integrity:

The estimated safety integrity, for each safety function, due to random hardware safe and dangerous failures rates (excluding "no part" and "no effect" contribution).

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The architectural constraints and the effects of random failures (PFH/PFD_{AVG}) must be verified for each specific application and safety function implemented by the E/E/PE safety-related system.

Certified by:

BYHON

BYHON Certification Director:

Franco Rosati

Rosati Francesco

CERTIFICATE No:
CELL-TEZE-ESE-B01

Issued:
August 30th, 2025

Valid until:
August 29th, 2028

The owner of a valid certificate for an assessed product is authorized to affix the following mark and relative ID number, to all recognized devices which are identical to the product assessed.

BYHON
SIL ✓

ANAB

ANSI National Accreditation Board

ACCREDITED

ISO/IEC 17065

PRODUCT CERTIFICATION
BODY

#8914

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The design of each Safety Instrumented Function (SIF) shall meet the requirements listed in the reference standards that shall be selected by taking into account the specific application. Specific activities necessary to investigate and reach a judgment on the adequacy of the functional safety achieved by the E/E/PE safety-related system or compliant items (elements/subsystems) has been conducted by an independent assessor.

The following failure rates data shall be used to the PFH/PFD_{AVG} estimation, taking into consideration all parameters such as redundancy, architectural constraints, diagnostic capability, also introduced by the whole system, including the considerations about the proof test and its effectiveness, mean time of restoration, up to the maintenance capability and its minimum characteristics.

Failure rates

| Device | λ_s | λ_{DU} | λ_{DD} |
|----------------|-------------|----------------|----------------|
| TEZE 001 Probe | 33 | 220 | 4705 |

Note:

- All failure rates are in FIT (Failure In Time 1 FIT = 1 failure / 10⁹ hours).
- The values of λ_{DD} are confirmed in the case of external diagnostics as indicated in the relevant Safety Manual
- The prescriptions contained in the safety manual GUI_IT_003 shall be followed.
- The device can be used in SIL 1 with HFT=0

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The Functional Safety
Assessment report no.

25-CLL-TEZEZ-FSA-01

dated:
August 27th 2025

is an integral part of this
certificate



Mod_12_CB Rev09

BYHON
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Prato (PO)
ITALY

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