

## EU-KONFORMITÄTSERKLÄRUNG 2021 EC-DECLARATION OF CONFORMITY 2021 DECLARATION CONFORMITE DE LA CE 2021

ELBRO AG - Steinackerstrasse 5 - 8180 Bülach

Hiermit erklären wir, dass das Produkt: /  
We confirm that the product: /  
Nous vous confirmons que ce produit:

|                                                      |                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Typ / Type / Type                                    | LED-Explosionssgeschütztes Licht                                                                                                                                                                                                                                                                                                        |
| Artikelnummer: / Numero d'article: / Article-number: | <b>LED-EX-24</b><br><b>LED-EX-30/40</b><br><b>LED-EX-36</b><br><b>LED-EX-50</b><br><b>LED-EX-60/40</b><br><b>LED-EX120/40</b>                                                                                                                                                                                                           |
| Ex-Kennzeichnung: / Marquage Ex : / Ex marking:      |  0081  II 2 G Ex eb mb op is IIC T5...T6 Gb<br> II 2 D Ex op is tb IIIC T80°C Db |

- Das (die) bezeichnete(n) Produkt(e) entspricht (entsprechen) den grundlegenden Anforderungen der folgenden europäischen Richtlinien und harmonisierten Normen:
- Le(s) produit(s) désigné(s) est (sont) conforme(s) aux exigences essentielles des directives européennes et des normes harmonisées suivantes :
- The designated product(s) is conformity with the essential requirements of the following European Directives and harmonized standards:

| ATEX Directive, 2014/34/EU                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN 60079-0:2018<br>EN 60079-7:2015<br>EN 60079-18:2015<br>EN 60079-28:2015<br>EN 60079-31:2014                                                                  | Explosive atmospheres-Part 0: Equipment-General requirement<br>Explosive atmospheres-Part 7: Equipment protection by increased safety ,e'<br>Explosive atmospheres-Part 18: Equipment protection by encapsulation ,m'<br>Explosive atmospheres-Part 28: Protection of equipment and transmission systems using optical radiation<br>Explosive atmospheres-Part 31: Equipment dust ignition protection by enclosure ,t'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Low Voltage Directive (LVD), 2014/35/EU                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EN 60598-1:2015+A1:2018<br>EN 60598-2-1:1989<br>EN 62471:2008<br>EN 2008+A1:2013+A2:2015<br>EN 62493:2015                                                       | Luminaires-Part 1: General requirements and tests.<br>Luminaires-Part 2-1: Particular Requirements-Fixed general-purpose luminaires<br>Photobiological safety of lamps and lamp system<br>LED modules for general lighting-Safety specifications<br>Assessment of lighting equipment related to human exposure to electromagnetic field                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Electromagnetic Compatibility Directive (EMC), 2014/30/EU                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EN 55015:2013+A1:2015<br>EN 61547:2009<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013                                                                                | Limits. (Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rate current ≤ 16A)<br>Equipment for general lighting purposes-EMC immunity requirements<br>Limits for (≤ 16A per phase) harmonic currents emission<br>Limits. (Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rate current ≤ 16A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| The RoHS Directive e 2011/65/E and its amendment directives 2015/863/EU                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| IEC 62321-3-1:2013<br>IEC 62321-5:2013<br>IEC 62321-4:2013+AMD1:2017<br>CSV<br>IEC 62321-6:2015<br>IEC 62321-7-1:2015<br>IEC 62321-7-2:2017<br>IEC 62321-8:2017 | Screening-Lead, mercury, cadmium, total chromium, and total bromine by X-ray fluorescence spectrometry<br>Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS<br>Mercury in polymers, metals, and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS<br>Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS)<br>Hexavalent chromium-Presence of hexavalent chromium (Cr (VI)) in colorless and colored corrosion-protected coatings on metals by the colorimetric method<br>Hexavalent chromium-Determination of hexavalent chromium (Cr (VI)) in polymers and electronics by the colorimetric method<br>Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) |

Die oben genannte Firma hält Dokumentationen als Nachweis der Erfüllung der Sicherheitsziele und die wesentlichen Schutzanforderungen zur Einsicht bereit.

En tan! que preuve de la satisfaction des demandes de securite la documentation peut etre consultee chez la compagnie susmentionnee.

Documentation evidencing conformity with the requirements of the Directives is kept available for inspection at the above Manufacture' s.

Bülach 03.11.2021

ELBRO AG  
CEO Christof Senk