



EU Conformity Declaration

For the following product

Signalling Device

ETS 100

ETS 200

ETS 410

we hereby confirm that it complies with the „DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits“ and the „DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility“.

This declaration applies to all devices with the type designation **ETS 100, ETS 200 and ETS 410** from the date of manufacture November 2019.

The following standards were applied in the assessment of the products with respect to their electromagnetic compatibility:

EN 61326-1:2013
EN 61326-2-3:2013

The following standards were applied in the assessment of the products with respect to the low-voltage guideline:

EN 61010-1:2010

In the assessment of the product with respect to the assessment of the restriction of hazardous substances, the following standard was applied:

DIN EN IEC 63000:2019-05

EN IEC 63000:2018

Schwabach, 22.12.2022

(Place, date)


Managing Director, Frank Pfeuffer



SIL Declaration of Conformity

Signalling Device

ETS 100

ETS 200

ETS 410

The named products permit use in a safe, electronic system with a protective function, and conform to the requirements for safety integrity level 2 assuming proper use in accordance with the standards and the operating instructions.

Standard versions: EN 61508-1:2010, EN 61508-2:2010, EN 61508-3:2010

Functional safety: SIL2

Device type: B

HFT: 0 (1001)

Safety parameters (per channel)	
Safe, detected failures λ_{SD} [FIT]	187
Safe, undetected failures λ_{SU} [FIT]	707
Dangerous, detected failures λ_{DD} [FIT]	143
Dangerous, undetected failures λ_{DU} [FIT]	85
Safe failure fraction SFF [%]	92.4
Probability of failure per hour PFH [1/h]	8.5×10^{-8}
Moderate probability of a dangerous failure for requirement PFD_{avg} with a test interval of 1 year	3.74×10^{-4}
Usage period of the safety functions	10 years

Schwabach, 22.12.2022

(Place, date)

Managing Director, Frank Pfeuffer

