

Application Note Absolute encoders EAx with PROFINET interface

Firmware Version V1.2.0.0 and later



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1. Introduction

1.1. Scope of delivery

Please check the delivery upon completeness prior to commissioning. Depending on encoder configuration and part number the delivery may include:

- PROFINET encoder
- GSDML file and manual (also available under www.baumer.com)

1.2. Product classification

| Product | Product family | Suitable input in hardware-catalog |
|-------------------------|----------------------|---------------------------------------|
| EAL580-xxx.xxPT-13160.x | optical - multiturn | EAL580 MT encoder ST13 MT16, optical |
| EAL580-xxx.xxPT-18130.x | optical - multiturn | EAL580 MT encoder ST18 MT13, optical |
| EAM580-xxx.xxPT-14160.x | magnetic - multiturn | EAM580 MT encoder ST14 MT16, magnetic |

Placeholders marked "x" in the product reference number will not influence the selection.

GSDML File

The GSDML file is the same for all products mentioned above.



2. Application Note

2.1. Import GSDML file

When importing the GSDML file "GSDML-V2.32-Baumer-EAx580_PN-XXXXXXXXX.xml" for EAx580 PROFINET (for EAL580 PROFINET and EAM580 PROFINET) into SIEMENS software Step7® the following message window appears although the GSDML file is compliant to the current PROFINET specification.



This affects all versions of Step7® up to and including Step7® V5.5 SP4.

The message can be ignored without problems. There are no functional limitations.

2.2. Activating/deactivating the scaling in the "Hardware Manager"

Please note that changing the positive direction of rotation from default - CW to CCW represents a scaling of the position value.

Please do not deactivate the scaling in this case, even if the resolution (ST/MT) corresponds to the default values.