Application Note

Absolute encoders EAx with PROFINET interface

Firmware Version V1.2.0.0 and later

09.18· 174.02.075/2
Subject to modification in technic and design.
Errors and omissions excepted.

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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

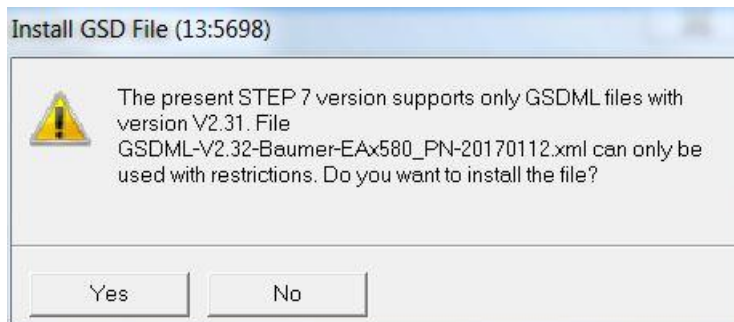Placeholders marked "x" in the product reference number will not influence the selection.

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-XXXXXXXX.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.