

**APPROVED PRODUCT/SPECIFICATION TESTED - REVISION REPORT  
OR ADDRESS/CONTACT CHANGE REPORT**

**SENDER:** Forward with updated drawings or other appropriate change information to the attention of the Approvals Division. Original will be returned showing course of action taken.

Additional forms may be requested by writing to the attention of the **Factory Mutual Research Stock Room.**

**FORWARD TO:**  
**Factory Mutual Research**  
1151 Boston-Providence Turnpike  
P.O. Box 9102 Norwood, MA 02062  
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http://www.fmglobal.com

Please type below: Attention of, Company Name, Address, City, State & Zip Code.

**Attn: Heinfried Neuhaus, R&D Engineer**  
**ABB Automation Products GmbH**  
**Schillerstrasse 72**  
**D-32425 Minden**  
**Germany**

**ATTENTION:**

DATE:  
**August 16, 2000**

FORWARD BY:  
**Heinfried Neuhaus**

TITLE:  
**R&D Engineer**

SIGNATURE:

MODEL(S) AFFECTED:  
**Models: 22/06, 22/08, TZIM Ex, TZID-Ex and TZID-EXP**

Phone: +49-571-830-1963

Fax: +571-830-1880

PRODUCT(S)

I/P Signal Converters Typ 22/06, 22/08 and Positiners TZIM Ex, TZID-Ex and TZID-EXP

DOES THIS REVISION RESULT IN MODEL/TYPE NO. CHANGE TO THE CURRENT APPROVAL GUIDE LISTING? IF YES, EXPLAIN (USE SEPARATE SHEET IF REQUIRED):  YES  NO

INDICATE FACTORY MUTUAL RESEARCH JOB IDENTIFICATION(S) AFFECTED:  
**J.I. 1P3A4.AE, 5Y3A6.AX, 1P8A7.AX, 0D5Q7.AE, OR3H2.AE, 2Z5A2.AE, 2B0A4.AE, OR8A3.AE, 1B6A9.AX**

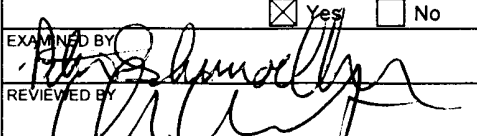

HAS THE MANUFACTURING LOCATION, LISTING ADDRESS, TELEPHONE NUMBER OR CONTACT PERSON CHANGED? IF YES, EXPLAIN BELOW:  YES  NO

REVISION DETAILS	DWG. NO. AFFECTED	REV.	NEW DWG. NO.	REV.
Name change from: Hartmann & Braun GmbH & Co KG	900832	0	900832	1
to: ABB Automation Products GmbH	900833	0	900833	1
Production has moved early 2000	900834	1	900834	2
from: Hackethalstrasse 7, D-30179 Hannover, Germany	900841	2	900841	3
to: Schillerstrasse 72, D-32425 Minden, Germany	900842	0	900842	1
Phone: +49-571-830-0	900843	0	900843	1
Production facility Hannover will be closed	900844	0	900844	1
	900090	1	900090	2
Revision of label artwork and control documents to include ABB logo	900988	1	900988	2
	900980	1	900980	2
Contact Person will be further:			901126	0
Dr. Thomas Karte, R&D Manager	274927	C	274927	1
Heinfried Neuhaus, R&D Engineer	900924	5	900924	6
Dernd Swider, QA Manager	900925	7	900925	8
	293016	4	293016	5

**REASON FOR CHANGE(S)/COMMENTS:**

Hartmann & Braun GmbH & Co. KG/Sensycon GmbH is now part of the ABB company.

**BELOW FOR FACTORY MUTUAL RESEARCH USE**

<p><b>COMMENTS:</b> ABB Automation Products GmbH is already listed in the Approval Guide, however, only under Alzenau, Germany site. With this Revision Report the products presently listed in the Approval Guide under Sensycon GmbH will now be listed under their new name ABB Automation Products GmbH under their Minden, Germany site separately (and not added to the Alzenau, Germany site.) Revisions to the Label and Control Drawings do not affect safety.</p> <p>See new Approval Guide Listing on back. CDL's Updated</p>	REVISION REPORT J. I. <b>3008208</b>	REVISION NOTICE NO. -----	CLASS NO. <b>3610</b>
	FORWARD APPROVAL/SPECIFICATION TESTED AGREEMENT <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	REVISION ACCEPTED <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	EXAMINED BY 	DATE <b>10-12-00</b>	
REVIEWED BY 	DATE <b>10/12/00</b>		

Below is a copy of how the ABB Automation Products GmbH, Minden, Germany products will be listed in the Approval Guide:

**ABB Automation Products GmbH Schillerstrasse 72, D-32425 Minden, Germany**

**Model 22/06-6a. I/P Signal Converter.**

IS / I / 1 / ABCD — 900842 / 1, 900843 / 1, 900844 / 1; Entity;  
NI / I / 2 / ABCD

Entity Parameters:

$V_{max} = 40 \text{ V}$ ,  $I_{max} = 125 \text{ mA}$ ,  $C_i = 0 \text{ F}$ ,  $L_i = 1.0 \text{ mH}$ .

$a = 1, 2, 3, 4 \text{ or } 5$ .

**Model 22/06-6a. I/P Signal Converter.**

IS / I,II,III / 1 / ABCDEFG — 900842 / 1, 900843 / 1, 900844 / 1; Entity;  
NI / I / 2 / ABCD;  
S / II / 2 / G; S / III / 2

Entity Parameters:

$V_{max} = 40 \text{ V}$ ,  $I_{max} = 125 \text{ mA}$ ,  $C_i = 0 \text{ F}$ ,  $L_i = 1.0 \text{ mH}$ .

$a = 6, 7, 8 \text{ or } 9$ .

**Models 22/06-a. I/P Signal Converter.**

XP / I / 1 / BCD;  
DIP / II,III / 1 / EFG

$a = 66, 67, 68, 69, 99 \text{ or } 99-1$ .

**Models 22/08-18, 21/13-18 and 21/13-28. P/I Signal Converter.**

XP / I / 1 / ABCD;  
DIP / II,III / EFG

**Model TZID-EXP. Intelligent Positioner.**

XP / I / 1 / BCD; DIP / II,III / 1 / EFG

**Model TZID Ex. Smart Positioner.**

IS / I,II,III / 1 / ABCDEFG — 900925 / 8; Entity;  
NI / I / 2 / ABCD;  
S / II / 2 / FG; S / III / 2

Entity Parameters:

$V_{oc} = 40 \text{ V}$ ,  $I_{sc} = 203 \text{ mA}$ ,  $C_a = 2.4 \text{ nF}$ ,  $L_a = 50 \text{ H}$ .

**Model TZIM Ex. Positioner.**

IS / I / 1 / ABCD — 900988 / 2; Entity;  
NI / I / 2 / ABCD

Entity Parameters:

$V_{max} = 40 \text{ V}$ ,  $I_{max} = 125 \text{ mA}$ ,  $C_i = 0$ ,  $L_i = 1 \text{ mH}$ .