

INTERNATIONAL STANDARD

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**Low-voltage switchgear and controlgear –
Part 5-7: Control circuit devices and switching elements – Proximity devices
with analogue output**

**Appareillage à basse tension –
Partie 5-7 : Appareils et éléments de commutation pour circuits de commande –
DéTECTEURS de proximité à sortie analogique**



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CONTENTS

FOREWORD.....	5
1 Scope.....	7
2 Normative references	8
3 Terms, definitions and list of abbreviated terms	8
3.1 Basic definitions.....	8
3.2 Operation of a proximity device.....	9
3.3 Output element characteristics.....	12
3.4 List of abbreviated terms.....	15
4 Classification.....	16
4.1 General.....	16
5 Analog characteristics	16
5.1 General.....	16
5.3 Rated and limiting values for the proximity device and output elements	16
5.3.1 Voltages	16
5.3.2 Currents	16
5.3.3 Load conditions	17
5.3.4 Linearity	17
6 Product information	17
6.1 Nature of information – Identification.....	17
6.1.1 Adding information.....	17
6.1.2 Specific information of 6.1.1 bc) Output characteristics.....	18
6.4 Environmental information	18
6.4.1 Environmentally conscious design process (ECD process)	18
6.4.2 Procedure to establish material declaration	18
7 Normal service, mounting and transport conditions.....	18
8 Constructional and performance requirements.....	19
8.1 General.....	19
8.1.1 Load conditions	19
8.1.18 Security aspects	19
8.1.19 Embedded software	19
8.2 Performance requirements.....	19
8.2.1 Acceptance criteria	19
8.5 Analog output limit values	19
8.5.1 General	19
8.5.2 Environmental test conditions	20
9 Tests	21
9.1 General.....	21
9.3.1 Test sequences	21
9.6 Verification of the electromagnetic compatibility.....	22
9.6.1 General	22
9.8 Additional requirements for proximity switches with analog output	22
9.8.1 Requirements for test programs and proper functioning verification procedures (PFVPs)	22
9.8.2 Verification of analog output	23
9.8.3 Accuracy and related factors	24

9.9	Testing of detection capabilities of physical sizes like operating distance, speed, rotation speed, frequency, etc.	25
9.9.1	General	25
Annex A	(informative) Example of the determination of the conformity	27
A.1	Example 1 of the determination of the conformity of an angle sensor, with linear output characteristics	27
A.2	Example 2 of the determination of the conformity of a position sensor, with nonlinear output characteristics	30
A.3	Test report and technical documentation	32
A.3.1	Test report	32
A.3.2	Technical documentation	32
A.3.3	Total probable error TPE	32
Annex B	(informative) Overview tests and influence quantities	34
B.1	Tests at the standard reference conditions	34
B.2	Tests at ambient and process reference conditions for influence quantities	36
Annex C	(normative) Additional requirements for proximity switches with analog output incorporating a built-in communication interface complying with IEC 61131-9	37
C.1	General	37
C.5	Analog Characteristics	37
C.5.1	Rated and limiting values for SDCI	37
C.6	Product information	37
C.8	Constructional and performance requirements	37
C.8.1	Constructional requirements	37
C.8.2	Electromagnetic compatibility (EMC)	37
C.9	Tests	38
C.9.1	Kinds of tests	38
Annex D	(informative) Main characteristics for proximity devices with analog output	39
D.1	Properties of proximity devices with analog output	39
D.2	Library of product properties and value lists	41
D.2.1	Library of properties used in the device classes	41
D.2.2	Value lists of properties	44
Bibliography	46
Figure 1	– Proximity device with analog output (PDAO), schematic block diagram structure	7
Figure 2	– Principle diagram of time values and their meanings	14
Figure 3	– Principle diagram of limit values and their ranges	15
Figure 4	– limit values of analog output signals	20
Figure A.1	– Output values diagram corresponding to example of Table A.1	28
Figure A.2	– Error curves corresponding to example of Table A.1	29
Figure A.3	– Non-linearity error curves corresponding to the example of Table A.1	30
Figure A.4	– Output values diagram corresponding to example of Table A.2	31
Figure A.5	– Error curves corresponding to example of Table A.2	32
Table 1	– Range of analog voltage signals	16
Table 2	– Range of analog current signals	17
Table 3	– Load conditions	17

Table 4 – Analog output signal static characteristics	18
Table 5 – Analog output dynamic characteristics.....	18
Table 6 – Analog output overload immunity test	24
Table 7 – Number of measurement cycles and number and position of test points	24
Table A.1 – Example table for the errors of a linear sensor	27
Table A.2 – Example table for the errors of a nonlinear sensor	31
Table B.1 – Summary of the tests at the reference conditions	34
Table B.2 – Summary of tests for influence quantities at the operating conditions.....	36
Table D.1 – proximity sensing devices with analog output.....	39
Table D.2 – Library of properties used in the device classes	41
Table D.3 – Value lists of properties	44

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LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR –**Part 5-7: Control circuit devices and switching elements –
Proximity devices with analog output**

FOREWORD

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IEC 60947-5-7 has been prepared by subcommittee 121A: Low-voltage switchgear and controlgear, of IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage. It is an International Standard.

This second edition cancels and replaces the first edition published in 2003. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) New structure;
- b) Update and expansion of definitions on analog output properties;
- c) Expanded performance requirements on analog output;

- d) Update and new normative references;
- e) Update of EMC requirements;
- f) Harmonization with IEC 62828 series;
- g) Harmonization with IEC 62683 and IEC 61987 definitions;
- h) Harmonization with IEC 61131-2 requirements;
- i) Update of the Annex A (former Annex G), Example of the determination of the conformity;
- j) New Annex B, Overview tests and influence quantities;
- k) New Annex C, Additional requirements for proximity switches with analog output incorporating a built-in communication interface complying with IEC 61131-9;
- l) New Annex D, Main characteristics for proximity devices with analog output.

This International Standard is to be read in conjunction with IEC 60947-5-2:2019.

The text of this International Standard is based on the following documents:

Draft	Report on voting
121A/592/FDIS	121A/604/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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