

OIML Member State
The Netherlands

Number R129/2000-A-NL1-21.02 Revision 1
Project number 2654811
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Issuing authority

NMi Certin B.V.
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**Applicant and
Manufacturer**

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Identification of the
certified type

A Multi-dimensional measuring instrument
Type : DM3610-....

Characteristics

See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 129 - Edition 2000

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

This Certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
23 December 2022

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The conformity was established by the results of tests and examinations provided in the associated OIML Report:

- No. NMI-2654811-01 dated 23 December 2022 that includes 18 pages.

Characteristics of the multi-dimensional measuring instrument:

Principle of operation		Reflection of light	
Maximum dimensions	Option	Incremental encoder	PGD100 with sensor array
	Length	see following tables	max ≤ 2200 mm
	Width		see following tables
	Height		
Measuring ranges		Single interval, multi-interval	
Maximum number of partial measuring ranges		2 (per axis)	
Maximum conveyor (or AGV)* speed v_{max}		3,3 m/s	
Electromagnetic environment class		E2	
Mechanical environment class		M3 (M2 for PGD100)	
Climatic environment	temperature range	-10 °C / +40 °C	
	humidity	non-condensing	
	intended location	closed	
Power supply voltage		22,5 – 26,5 V DC	
Method of operation		automatic	

*(AGV: Automated guided vehicles)

Models DM3610-1200 (single head):

Maximum dimension	Length	Width	Height
	max ≤ 4000 mm	max ≤ 1200 mm	max ≤ 1000 mm
Minimum dimension	min ≥ 50 mm	min ≥ 50 mm	min ≥ 20 mm
Scale interval	d ≥ 5 mm	d ≥ 5 mm	d ≥ 2 mm
Limitations of use	rectangular and opaque objects		
Minimum spacing between successive* objects	20 mm *(multiple objects in horizontal or vertical order on conveyor)		
Software identification measurement head version	Version 1.4 / 1.5 / 1.6 / 1.7 / 1.8 / 1.9		

Models DM3610-2200 (single head):

Maximum dimension	Length	Width	Height
	max ≤ 4000 mm	max ≤ 1200 mm	max ≤ 1000 mm
Minimum dimension	min ≥ 50 mm	min ≥ 50 mm	min ≥ 20 mm
Scale interval	d ≥ 5 mm	d ≥ 5 mm	d ≥ 2 mm
Limitations of use	rectangular and opaque objects		
Minimum spacing between successive* objects	0 mm *(multiple objects touching each other)		
Software identification measurement head version	Version 1.5 / 1.6 / 1.7 / 1.8 / 1.9		

Models DM3610-3200 and DM3610-4200 (2-heads / 3-heads):

Maximum dimension	Length	Width	Height
	max ≤ 4000 mm	max ≤ 1600 mm	max ≤ 1000 mm
Minimum dimension	min ≥ 50 mm	min ≥ 50 mm	min ≥ 20 mm
Scale interval	d ≥ 5 mm	d ≥ 5 mm	d ≥ 2 mm
Limitations of use	rectangular, opaque and irregular objects		
Minimum spacing between successive* objects	2-heads	25 mm *(multiple objects along, or perpendicular to, conveyor direction)	
	3-heads	0 mm *(for touching objects where one or more corners differ by ≥ 25 mm)	
Software identification measurement head version	Version 1.6 / 1.7 / 1.8 / 1.9		
Software identification controller PC version	Version 1.0 / 1.1 / 1.2 / 1.3 / 1.4 / 2.0 / 2.2		

Software identification measurement head:

Version 1.4	DSP software	9769FD1C96438C5AB910F725545FFDB3
	FPGA software	61A92F0F152949924F17152E063A9236
	LFT library	94092F384948235EB4E70E30667D8991
Version 1.5	DSP software	305BED285D4E48F30701374A32ECEA96
	FPGA software	80DBC646A9232FC00E385CC0E26E10FE
	LFT library	A4244AF0ADD423EF3E5F7DB14CF09A3E
Version 1.6	DSP software	2ED5F1A33D0D50CE8919FF11D58263A7
	FPGA software	060ECB51C9D955E6B4A948D081BBD2C8
	LFT library	B446D385DF0F114E50BD688B2ED583C3
Version 1.7	DSP software	2ED5F1A33D0D50CE8919FF11D58263A7
	FPGA software	A1DF019DD27291700918BB30EC9CC344 or B4932BB6A16446E0356693A8F3427312
	LFT library	CA0F6B1978432C13AA6DB1F47D43DF5F or DACFBC69E3EFF6855B706C6611FA61F7
Version 1.8	DSP software	5EA157FC07310396BFBA0ED72F3E3EE7
	FPGA software	B4932BB6A16446E0356693A8F3427312
	LFT library	09F8EF9EE9F2A0DAAE823C0187F21F2E
Version 1.9	DSP software	5EA157FC07310396BFBA0ED72F3E3EE7
	FPGA software	B4932BB6A16446E0356693A8F3427312
	LFT library	9E01A2571EE39EB63E40D3AF032B66BD

Software identification controller PC:

Version 1.0	Cube3610	4e6d88b94ad9b87918dcfd7e06152499
	MCM	eddfbb285f438ce31cb1554d563fe939
	DimModule Library	de98b905fb95c7750858f39efa95169f
	LftParamUtil	4bbc7c8a7ae41f20fbb5998b9f5b518
Version 1.1	Cube3610	0877c44162b68891ee25827634be98b6 or de703fb794f2b57b3235830d362c3ffa
	MCM	d77305fc7c9a421787a9d4aa3c21372f
	DimModule Library	a56aea4865cca3715527ec51f5fe025c or 2b69d3a73baef22bca09d0bf58fa7f9d
	LftParamUtil	5de0d9990f0e92f26de81fe148a723b8 or 78405b7061965028c2f9d0734f052f7b

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Version 1.2	Cube3610	50ec22851d65ca91f2608b42bf98decb or b8d0db21910f54a05e56b8063978de7e or 1879c2040590e74b947ff600e3219ae2
	MCM	d77305fc7c9a421787a9d4aa3c21372f
	DimModule Library	f69f9f7242f9fc86640d8821494e7157 or e4df456eb33fa1f8c81057287af8a3b0
	LftParamUtil	b434c70e98cded0adec9ca2fa09d9fe6 or b58d3f0e127731e853e9a8cdc61846e7
Version 1.3	Cube3610	f473570bffc1b7cc3d407c2db66630e8
	MCM	01beec057eba494562650740a09ef8d
	DimModule Library	2927f457e0866953572636a392c1744b
	LftParamUtil	5c9390ddb30c7238ddf9037fadd44bf
Version 1.4	Cube3610	9f136cf95594aa38616ed8a4749cb91f
	MCM	88b80abc0841e087cd31ef2be53417ec
	DimModule Library	e1dedbb10f1fc4660b98a32b41d94961
	LftParamUtil	2d953cfeaad1e74ee5ebb49ed844c8e3
Version 2.0	Cube3610	b7304098552ccdc284de3a2be8a52ae3 or 10a35f7003cbbb6eb9f796e62c1e3e89
	MCM	a83b2c6ef862a5a5a9f2fcc0a22cb756 or 88b80abc0841e087cd31ef2be53417ec
	DimModule Library	ffa3d2d1a703f2daa92649809d2cd60f or eba095c5ef29a3a6fd4f268354541e58
	LftParamUtil	0ed3488897746302985c0c7129d44124 or 1af5d69d15196d3adb08761b4eb63dff
	LftProcUtil	ba13d6332af9b133d932ba2e267c473b or 97ebc81825250923a7aafceaf319b455
Version 2.2	Cube3610	138dcd25ce7ac3860f9cfe8be18fd9ed or 51fdaa89ba383ca231f0055d6a781c28
	MCM	a83b2c6ef862a5a5a9f2fcc0a22cb756 or 88b80abc0841e087cd31ef2be53417ec
	DimModule Library	745a70710af708a60f1c2caed59e6e99 or d8da12023a0e9517304bff068e2afee7
	LftParamUtil	186b10a64a769b0a06e8bb1716115f9e or 93856c2f334fc1f4667abd6a1a87c75b
	LftProcUtil	ffd212294867ea73cd6615bf13bdaeff or 164f82aba60e532ab4bbb5c9c66da2a6

Software identification for PGD100 with sensor array: 725783C4 or 0E0175A4.

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Software:

- The identification numbers of each measuring head will be displayed through the web server interface of each measuring head;
- The identification numbers of the controller PC will be displayed through the web server interface of the controller PC.
- The identification number for the PGD100 with sensor array is visible on the cabinet through a window.

Configurations:

- Measuring head(s):
 - Single measuring head without controller PC, or
 - Two or three measuring heads with a controller PC.
- Displacement sensor:
 - Incremental encoder for conveyor belt;
 - PGD100 with sensor array (2-16 sensors) for cross belt sorter, tilt tray sorter or AGVs.

Revision History

This revision replaces the previous version.

Revision	Date	Change(s)
0	21 June 2021	Initial issue.
1	23 December 2022	Option to cater for AGVs instead of a conveyor belt. Added support for multiple touching objects. Added support for multi-interval.