

# DIN EN 12368:2015-09 (E)

## Traffic control equipment - Signal heads

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		6
1	Scope .....	7
2	Normative references .....	7
3	Terms and definitions .....	7
4	Constructional Product Characteristics .....	8
4.1	General .....	8
4.2	Signal head .....	9
4.3	Performance under impact product characteristic .....	9
4.4	Constructional integrity product characteristic .....	9
5	Environmental, electromagnetic compatibility (EMC) and electrical product characteristics .....	9
5.1	Environmental characteristics .....	9
5.2	Electrical safety and EMC characteristics .....	10
6	Optical Product Characteristics .....	10
6.1	General .....	10
6.2	Diameter of signal lights .....	10
6.3	Luminous intensities of signal lights .....	10
6.4	Distribution of luminous intensity .....	11
6.5	Luminance uniformity .....	13
6.6	Maximum phantom signal .....	13
6.7	Colours of signal lights .....	13
6.8	Signal lights with symbols .....	14
6.9	Background screen of signal lights .....	14
6.10	Visible flicker .....	14
7	Constructional and environmental test methods .....	14
8	Optical test methods .....	17
8.1	General .....	17
8.2	Measurement of luminous intensities .....	17
8.3	Measurement of luminance for uniformity tests .....	18
8.4	Measurement of phantom signal .....	19
8.5	Measurement of the colour .....	20
8.6	Measurement of combined colours .....	20
9	Tolerances .....	21
10	Marking, labelling and product information .....	22
10.1	Marking and labelling .....	22
10.2	Product information .....	23
11	Assessment and verification of constancy of performance - AVCP .....	23
11.1	General .....	23
11.2	Type testing .....	24

11.2.1	General .....	24
11.2.2	Test samples, testing and compliance criteria .....	25
11.2.3	Test reports .....	27
11.2.4	Shared other party results .....	27
11.2.5	Cascading determination of the product-type results .....	28
11.3	Factory production control (FPC) .....	29
11.3.1	General .....	29
11.3.2	Requirements .....	29
11.3.3	Product specific requirements .....	32
11.3.4	Initial inspection of factory and of FPC .....	33
11.3.5	Continuous surveillance of FPC .....	33
11.3.6	Procedure for modifications .....	33
11.3.7	One-off products, pre-production products (e.g. prototypes) and products produced in very low quantity .....	34
Annex A (informative) Test, declarations and requirements .....		35
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation .....		37
ZA.1	Scope and relevant characteristics .....	37
ZA.2	Procedure for AVCP of Traffic control equipment - Signal heads .....	38
ZA.2.1	System(s) of AVCP .....	38
ZA.2.2	Declaration of performance (DoP) .....	39
ZA.2.2.1	General .....	39
ZA.2.2.2	Content .....	39
ZA.2.2.3	Example of DoP .....	40
ZA.3	CE marking and labelling .....	42
Bibliography .....		45