

DIN EN 12368:2024-06 (E)

Traffic control equipment - Signal heads

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Constructional product characteristics	8
4.1	General	8
4.2	Ingress protection	8
4.3	Performance under impact product characteristic	8
4.4	Constructional integrity product characteristic	8
5	Environmental, electromagnetic compatibility (EMC) and electrical product characteristics	9
5.1	Environmental characteristics	9
5.2	Electrical safety, road traffic safety and EMC characteristics	9
6	Optical product characteristics	9
6.1	General	9
6.2	Light emitting diameter of optical units	9
6.3	Luminous intensities of optical units	9
6.4	Distribution of luminous intensity	10
6.5	Luminance uniformity	12
6.6	Maximum phantom signal	12
6.7	Colours of light	12
6.8	Signal lights with symbols	13
6.9	Background screen of signal lights	13
6.10	Visible flicker	13
7	Constructional and environmental test methods	13
8	Optical test methods	16
8.1	General	16
8.2	Measurement of luminous intensities	17
8.3	Measurement of luminance for uniformity tests	18
8.4	Measurement of phantom signal	18
8.5	Measurement of the colour	19
8.6	Measurement of combined colours	20
9	Tolerances	21
10	Marking, labelling and product information	21
10.1	Marking and labelling	21
10.2	Product information	22
11	Assessment and verification of constancy of performance - AVCP	23
11.1	General	23
11.2	Type testing	23

11.2.1	General	23
11.2.2	Test samples, testing and compliance criteria	24
11.2.3	Test reports	26
11.2.4	Shared other party results	26
11.2.5	Cascading determination of the product-type results	27
11.3	Factory production control (FPC)	28
11.3.1	General	28
11.3.2	Requirements	28
11.3.3	Product specific requirements	31
11.3.4	Initial inspection of factory and of FPC	32
11.3.5	Continuous surveillance of FPC	32
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	33
Annex A (informative) Test, declarations and requirements		34
Bibliography		36