

DIN EN 12352:2024-08 (E)

Traffic control equipment - Warning and safety light devices

Contents		Page
European foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
4	Requirements	10
4.1	Photometric and colorimetric performance	10
4.1.1	Luminous intensity	10
4.1.2	Light emitting surface	11
4.1.3	Uniformity of luminance	11
4.1.4	Colorimetric performance	12
4.1.5	Retro-reflective devices	12
4.2	Electrical and functional requirements	13
4.2.1	Electrical requirements	13
4.2.2	Continuity of emitted light and on-time	14
4.2.3	Electromagnetic compatibility EMC	15
4.3	Construction	15
4.3.1	Performance under impact (Mechanical strength)	15
4.3.2	Weather resistance	16
4.3.3	Secure fastening and locking	16
4.3.4	Passive safety	17
4.3.5	Dangerous substances	17
5	Test methods	17
5.1	General	17
5.2	Luminous intensity	17
5.3	Uniformity of luminance	19
5.3.1	Testing Conditions	19
5.3.2	Testing Warning Lights classes L2 to L5	19
5.3.3	Testing Warning Lights classes L6 to L9	19
5.4	Colour of the light of the warning light	19
5.5	On/Off and variable intensity photosensitive switches	21
5.5.1	General	21
5.5.2	Natural ambient light test	22
5.5.3	Uni-directional artificial light test	23
5.6	Mechanical strength	23
5.6.1	Impact test A	23
5.6.2	Impact test B	25
5.6.3	Impact test C	26
5.7	Flash rate and on-time	26
5.8	Durability of markings and labels	26
6	Assessment and verification of constancy of performance - AVCP	26
6.1	General	26
6.2	Type testing	27
6.2.1	General	27
6.2.2	Test samples, testing and compliance criteria	27

6.2.3	Test reports	28
6.2.4	Shared other party results	28
6.2.5	Cascading determination of the product type results	29
6.3	Factory production control (FPC)	30
6.3.1	General	30
6.3.2	Requirements	30
6.3.3	Product specific requirements	32
6.3.4	Initial inspection of factory and of FPC	33
6.3.5	Continuous surveillance of FPC	33
6.3.6	Procedure for modifications	34
6.3.7	One-off products, pre-production products (e.g. prototypes) and products produced in very low quantity	34
7	Designation	35
8	Marking, labelling and product information	35
8.1	Marking and labelling	35
8.2	Product information	36
	Bibliography	37