

**Verification documentation
according to
EN ISO 12100
for
Light bollards
40154E-Series**

Evidence documentation for risk assessment for Light bollards

Official language

The risk assessment documents were written in English language.

General description of the product

Technical Data

Dimensions and mass

Parameter		Unit	Value
Height bollard (L)		[cm]	105
Diameter bollard (Ø)		[cm]	152,4
Width baseplate (H)		[cm x cm]	200 x 200
Thickness baseplate (t)		[cm]	0,8
Gewicht (m)		[kg]	14

Electrics

Parameter	Unit	Value
AC voltage (U)	[V]	230
Frequency (f)	[Hz]	50
Power (P)	[W]	12

Lightsources

Parameter	Unit	Value
Color		neutral-white
Color temperature	[K]	4000
Luminous flux	[lm]	1050
Angle of radiation	[°]	180

Materials

Parameter	Characteristics
Construction material	Steel (S235JR)
Surface	Galvanized according to DIN EN ISO 1461 und powder coated
Schutzglas	Acrylic glass clear/satinized (depending on version)

Application area

- Outdoor areas

Components

- Subassemblies made of welded tubes
- Protective glass made of acrylic glass
- Welded base plates for dowelling at the place of use
- Wago clamps for connection to the local power supply system with plastic protective housing
- LED module

Hazard level according to VdS 2357 "Guidelines for fire damage restoration"

GB1: Clamping contacts

GB2: LED-Modul

Hazard level GB1: Clamping contacts,

Description:

The light bollard contains three sockets with IP54 protection. The sockets have a CE mark.

Person at risk:

Any person who uses the light bollard

Risk assessment before protective measures:

Electrocution injury

Safeguards:

A hinged cover protects persons from contacts

Hazard level GB2: LED-Module

Description:

When installing the illuminated bollard, stripped conductors from the local power supply system must be connected to the Wago terminals of the product.

Hazardous person:

The installer

Risk assessment before protective measures:

Injury due to electric shock

Protective measures:

Before installation, the power supply for the cable to be installed is switched off