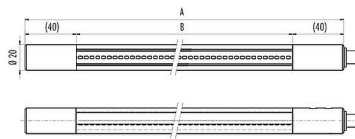


Product description	M12 LED light, Contacts: 4, IP68 (2m/24h), UL, VDE, Ecolab, FDA compliant, stainless steel, clear LED 250mm
Area	series 976
Part no.	28 1300 000 04

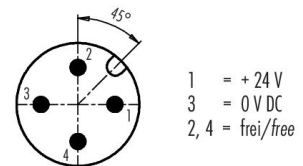
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



## Technical data

### General features

Part no.	28 1300 000 04
Connector design	LED light
Degree of protection	IP68 (2m/24h) IP69K
Connection	pluggable M12
Temperature range from/to	-25 °C / 60 °C
Luminaire length	250 mm
Diameter	20 mm
Additional information	stainless steel clear LED 250mm
Weight (g)	191.78
Customs tariff number	9405109890
Country of Origin	DE

### Electrical parameters

Voltage	24 V DC
Current consumption	238 mA
Electrical rating	5.8 W
Illuminance	108 lux
Light color	4000 K
Luminous flux	408 lm

### Material

Housing material	Stainless steel
Material of protective glass	PMMA
REACH SVHC	CAS 96-45-7 (Imidazolidine-2-thione) CAS 7439-92-1 (Lead)

Product description	<b>M12 LED light, Contacts: 4, IP68 (2m/24h), UL, VDE, Ecolab, FDA compliant, stainless steel, clear LED 250mm</b>
Area	<b>series 976</b>
Part no.	<b>28 1300 000 04</b>

SCIP number 1ee93a94-4e8c-442c-9a7b-45bb729f18ac

#### Authorization/approvals

Approvals	UL, VDE, Ecolab, FDA compliant
-----------	--------------------------------

#### Classifications

eCl@ss 11.1	27-06-03-11
ETIM 9.0	EC002638

#### Declarations of conformity

Low Voltage Directive	2014/35/EU (EN 60598-1:2015;EN 60598-2-1:1989)
EMC Directive	2014/30/EU (EN 61000-6-2:2005;EN 61000-6-3:2007)
RoHS Directive	2011/65/EU (EN 50581:2012)
Ecodesign Directive	2009/125/EG

Product description	<b>M12 LED light, Contacts: 4, IP68 (2m/24h), UL, VDE, Ecolab, FDA compliant, stainless steel, clear LED 250mm</b>
Area	<b>series 976</b>
Part no.	<b>28 1300 000 04</b>

## Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

## DECLARATION FROM THE MANUFACTURER

For part no.: 28 1300 000 04

14/07/2025

With regard to the

**Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.**

With the REACH regulation, the EU has created a uniform system for the Registration, Evaluation, Authorisation and restriction of CHEMicals – or REACH. The purpose of this regulation is to ensure a high level of protection of human health and the environment.

Franz Binder GmbH & Co. Elektrische Bauelemente KG hereby confirms that it acts as a downstream user (producer of products) according to the aforementioned regulation.

We obtain all raw materials and/or preparations, from which the connectors are made, from suppliers who have already registered or pre-registered all substances, including those present in the preparations. The products supplied by the company are not subject to registration.

With regard to Article 33(1) of the REACH regulation, Franz Binder GmbH & Co. Elektrische Bauelemente KG complies with its information obligations:

An up-to-date candidate list (candidate list of substances of very high concern for authorisation, as of 25/06/2025 see: <https://echa.europa.eu/de/candidate-list-table>) in accordance with Article 59 (1, 10) of the regulation (EC) No 1907/2006 (REACH) has been published.

The aforementioned article includes the following substances from the up-to-date candidate list in concentrations of more than 0,1 percent by mass:

- CAS 96-45-7 (Imidazolidine-2-thione)
- CAS 7439-92-1 (Lead)

Please refer any questions to our Product Compliance Team:

[Product-Compliance@binder-connector.de](mailto:Product-Compliance@binder-connector.de)

## DECLARATION FROM THE MANUFACTURER

For part no.: 28 1300 000 04

14/07/2025

With regard to the

### COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 of 31 March 2015

**amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards  
the list of restricted substances**

Directive 2011/65/EU stipulates provisions on the restriction of the use of hazardous substances in electrical and electronic equipment (EEE) with a view to contributing to the protection of human health and the environment, including the environmentally sound recovery and disposal of EEE waste.

#### ANNEX II

Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials

Lead (0,1%) mercury (0,1%) cadmium (0,01%) hexavalent chromium (0,1%) polybrominated biphenyls (PBB) (0,1%) polybrominated diphenyl ethers (PBDE) (0,1%) bis(2-ethylhexyl) phthalate (DEHP) (0,1%) butyl benzyl phthalate (BBP) (0,1%) dibutyl phthalate (DBP) (0,1%) diisobutyl phthalate (DIBP) (0,1%)

Franz Binder GmbH & Co. Elektrische Bauelemente KG hereby confirms that it complies with all standard articles of the aforementioned Directive. Our products do not contain any of the specified prohibited substances above the maximum permitted concentrations specified therein, taking into account the exemptions in Annex III of Directive 2011/65/EU.

- Complies with RoHS III with exemption 6c

Please refer any questions to our Product Compliance Team:

Product-Compliance@binder-connector.de

## MANUFACTURER'S DECLARATION

For part no.: 28 1300 000 04

14/07/2025

with regard to

### Declaration of compliance with China RoHS – Components

We herewith declare the compliance of this product with the Chinese marking requirements. This product can be recycled and used safely during its environmentally friendly use period of 50 years. These articles will be sold as components only for manufacturing. According to the Electronic Industry Standard SJ/T 11364-2014 it needs not to be marked with Environmentally Friendly Use Period (EFUP) label. This product should be recycled after its environmental protection use period has expired because it may contain substances or elements as shown in the following table:

Part Name	Hazardous Substance					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Connectors	X	0	0	0	0	0

This table is prepared in accordance with the provisions of SJ/T 11364.

0: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572

X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572

The table shows where these substances may be found in this Electrical and Electronic Product.

Please refer any questions to our Product Compliance Team:

Product-Compliance@binder-connector.de

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190114-E475844  
**Report Reference** E475844-20150523  
**Issue Date** 2019-JANUARY-14

**Issued to:** Franz Binder GmbH & Co. Elektrische Bauelemente KG  
Roetelstrasse 27  
74172 Neckarsulm GERMANY

**This certificate confirms that  
representative samples of**

LOW-VOLTAGE LIGHTING SYSTEMS, POWER UNITS,  
LUMINAIRES AND FITTINGS

Refer to addendum page for models

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:**

UL 2108 - Low Voltage Lighting Systems  
CSA C22.2 No.250.0-18 - Luminaires  
UL 8750 - Light Emitting Diode (LED)  
Equipment for Use in Lighting Products

**Additional Information:**

See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190114-E475844  
**Report Reference** E475844-20150523  
**Issue Date** 2019-JANUARY-14

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## Models

USL and CNL – Low Voltage, Class 2 LED Luminaires, Models 28 1200 000 04, 28 1200 002 04; 28 1201 000 04, 28 1201 002 04, 28 1202 000 04, 28 1202 002 04, 28 1203 000 04, 28 1204 000 04, 28 1205 000 04, 28 1300 000 04, 28 1300 002 04, 28 1301 000 04, 28 1301 002 04, 28 1302 000 04, 28 1302 002 04, 28 1303 000 04, 28 1304 000 04 and 28 1305 000 04.

Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>.



## EU DECLARATION OF CONFORMITY

Manufacturer	<b>Franz Binder GmbH &amp; Co. Elektrische Bauelemente KG Rötelstraße 27 D-74172 Neckarsulm</b>
Part no.	<b>28 1300 000 04</b>
Product	
Series	<b>series 976</b>

This product complies with the requirements of the following European Directive:  
Directive 2014/35/EU of the European Parliament and of the council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (recast).

The following harmonized standards have been applied for conformity assessment:

EN 60598-1:2015;EN 60598-2-1:1989 \*)

\*) This standard is currently not harmonized

References to standards apply to references to their amendments, if these amendments are listed to the respective directives in the Official Journal of the European Union.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Neckarsulm, 2025-03-05



i.A. Soner Cakar  
Product Compliance Manager

## UKCA DECLARATION OF CONFORMITY

Manufacturer	<b>Franz Binder GmbH &amp; Co. Elektrische Bauelemente KG Rötelstraße 27 D-74172 Neckarsulm</b>
Object of the declaration	<b>Connector (COC)</b>
Product	<b>28 1300 000 04</b>

The object of the declaration described above is in conformity with the relevant UK-Regulations and UK-Guidelines:

**The Electrical Equipment (Safety) Regulations 2016**  
STATUTORY INSTRUMENTS  
2016 No. 1101  
CONSUMER PROTECTION  
HEALTH AND SAFETY

References of standards and/ or technical specifications applied for this declaration of conformity, or parts thereof:

**2016 No. 1101: EN 61984:2009 \*)**

\*) This standard is currently not listed in the assigned directive.

This declaration is issued under the sole responsibility of the manufacturer.

Neckarsulm, 2025-03-05



i.A. Soner Cakar  
Product Compliance Manager

## EU DECLARATION OF CONFORMITY

Manufacturer	<b>Franz Binder GmbH &amp; Co. Elektrische Bauelemente KG Rötelsstraße 27 D-74172 Neckarsulm</b>
Part no.	<b>28 1300 000 04</b>
Product	
Series	<b>series 976</b>

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation: Directive 2014/30/EU of the European Parliament and of the council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast). The following harmonized standards have been applied for conformity assessment:

EN 61000-6-2:2005;EN 61000-6-3:2007 \*)

\*) This standard is currently not harmonized

References to standards apply to references to their amendments, if these amendments are listed to the respective directives in the Official Journal of the European Union.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Neckarsulm, 2017-09-20



i.A. Soner Cakar  
Product Compliance Manager

## EU DECLARATION OF CONFORMITY

Manufacturer	<b>Franz Binder GmbH &amp; Co. Elektrische Bauelemente KG Rötelstraße 27 D-74172 Neckarsulm</b>
Part no.	<b>28 1300 000 04</b>
Product	
Series	<b>series 976</b>

This declaration of conformity is issued under the sole responsibility of the manufacturer.  
The object of the declaration described above is in conformity with Directive 2011/65/EU of the European Parliament and of the council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast).  
The following harmonized standards have been applied for conformity assessment:

EN 50581:2012 \*)

\*) This standard is currently not harmonized

References to standards apply to references to their amendments, if these amendments are listed to the respective directives in the Official Journal of the European Union.

Neckarsulm, 2021-07-27



i.A. Soner Cakar  
Product Compliance Manager

## UKCA DECLARATION OF CONFORMITY

Manufacturer	<b>Franz Binder GmbH &amp; Co. Elektrische Bauelemente KG Rötelstraße 27 D-74172 Neckarsulm</b>
Object of the declaration	<b>Connector (COC)</b>
Product	<b>28 1300 000 04</b>

The object of the declaration described above is in conformity with the relevant UK-Regulations and UK-Guidelines:

**The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment  
Regulations 2012**

STATUTORY INSTRUMENTS  
2012 No. 3032  
ENVIRONMENTAL PROTECTION

References of standards and/ or technical specifications applied for this declaration of conformity, or parts thereof:

**2012 No. 3032**: EN IEC 63000:2018

This declaration is issued under the sole responsibility of the manufacturer.

Neckarsulm, 2021-09-17



i.A. Soner Cakar  
Product Compliance Manager

## EG DECLARATION OF CONFORMITY ACCORDING TO 2009/125/EG

Manufacturer	<b>Franz Binder GmbH &amp; Co. Elektrische Bauelemente KG Rötelstraße 27 D-74172 Neckarsulm</b>
Part no.	<b>28 1300 000 04</b>
Product	
Series	<b>series 976</b>

\*)

\*) This standard is currently not harmonized

Neckarsulm, 2017-09-20



i.A. Soner Cakar  
Product Compliance Manager