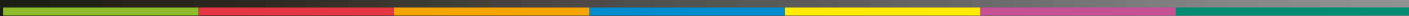




Binder LED –
more than light!



Binder Connector Group

Leading in the Way of Development and Manufacturing Connectors for Industrial Applications and Automation Technology

The Binder Connector Group, headquartered in the German town of Neckarsulm, is part of a medium-sized group of companies and has offices in Germany, Switzerland, France, the United Kingdom, Sweden, the Netherlands, China, Singapore and the USA. Our production sites boast an exceptionally high level of vertical integration and are where we develop, design and produce solutions that meet the highest possible standards of quality and

precision, including solutions that are built to meet specific customer requirements.

Today, this family-owned company is one of the leading manufacturers of circular connectors for industrial applications. We have what it takes to supply exactly the right product to suit every application. We mainly develop and produce industrial connectors as well as connectors for sensor and automation technology.

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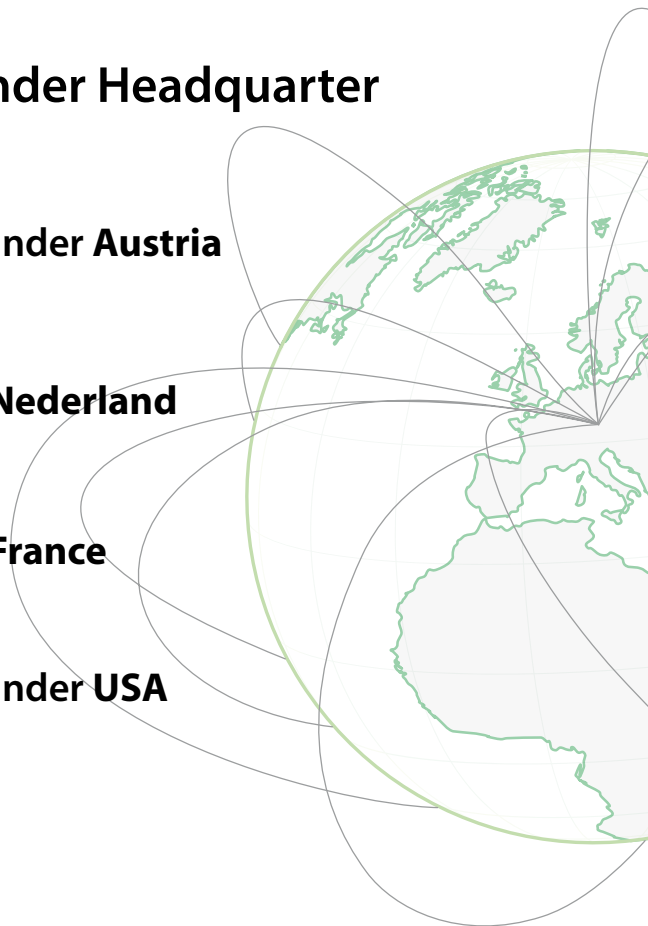
Binder Headquarter

Binder Austria

Binder Nederland

Binder France

Binder USA



Binder Connects the World

As a world-leading manufacturer, our products are at the heart of our daily work. With a range of 5000 catalogue items, 3000 designs and 500 customised parts, we are able to supply exactly the suitable product for nearly every industrial electronics application.



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Binder – On the Way to Becoming a Brand

A brand stands for sovereignty, credibility, trust and differentiation. A brand needs a face in the crowd.

Binder, one of the leading providers of circular connectors, has the target: to become a brand, in order to increase its degree of brand awareness, to improve its image and to distinct from the competitors.

We Want to Attract Attention.

We Want to be Liked.

We Want People to Talk about Binder.

We Want to have Fans.

Binder Stands for Reliability, Quality and Responsibility

Defined by traditional values, Binder is a company that customers, employees and service providers know they can always rely on.

Quality is also part of Binder's brand essence, and the soul of a brand.

Our claim is highest quality:

- in our products
- in the employees we choose
- in the sense of reliability we demonstrate to our customers
- in the sense of responsibility we have towards our employees, customers and service providers

To take, to show and to live responsibility means for us:

- to communicate at eye level
- to be on familiar terms with our employees
- respecting the environment and the resources is self-evident for us

Openness and honesty are the basis of our daily acting.



The light-emitting diode – LED

The light-emitting diode (LED) is not only one of the most energy-efficient lamps available today, it is also suitable for maximum field of applications.

The LED is a semiconductor crystal that emits visible light when charged with electricity. A crystal measuring just a few millimetres is positioned on a reflector which conducts the light with total accuracy.

The reflector and crystal are affixed to a bracket containing the electrical contacts.

The bracket with the crystal and reflector is typically encapsulated in epoxy resin. The colour of the LED light depends on the composition of the crystal. For instance, white light is generated by converting a blue diode with a fluorescent layer.



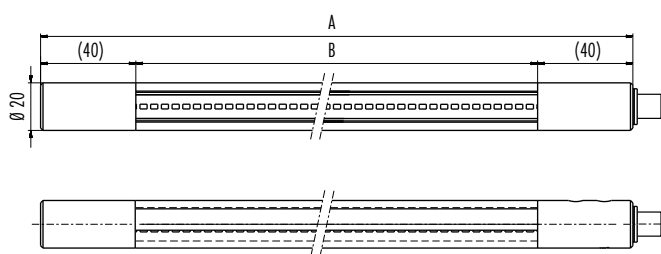
LIGHT IS MORE THAN JUST
BRIGHTNESS.

THE MANUFACTURING OF A
PERFECT PRODUCT REQUIRES
THE BEST LIGHT OF AN LED.



Binder LED - the best light

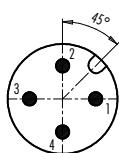
Drawing



AVAILABLE VERSIONS

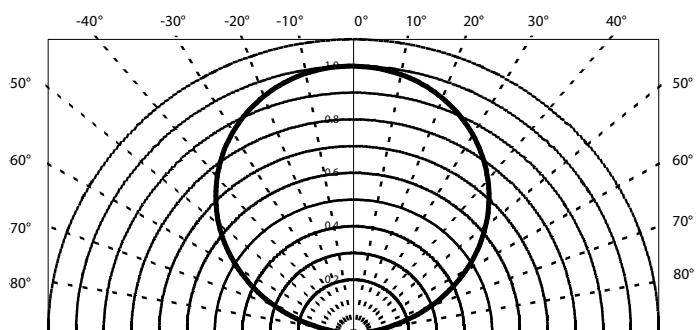
Order Number	28 1200 000 04	28 1201 000 04	28 1202 000 04
Length (A)	250 mm	358 mm	412 mm
Length of lightening (B)	170 mm	278 mm	332 mm
Rated Power	5,7 W	9,1 W	13,6 W
Built-in LEDs	60	96	114
Illumination (1m)	95 Lux	152 Lux	227 Lux
luminous flux	227 lm	380 lm	569 lm
Power input	235 mA	375 mA	562 mA

Contact arrangement male insert (mating side)



1 = + 24 V
3 = 0 V DC
2, 4 = free

Light distribution curve
IF = 80 mA TS = 25 °C



TECHNICAL SPECIFICATIONS

Diameter	20 mm
Colour of body	Alu
Angle of light radiation	120°
Light yield	48 lm/W
Lightcolour	4.000 K (rw) (3 Step Mac Adam)
Colour rendering (RA/CRI)	> 90
Voltage	24 V DC
Temperature in use	- 25 °C /+ 60 °C
Storage temperature	- 40 °C /+ 85 °C
Degree of protection ¹⁾	IP67, IP68 ³⁾ , IP69K
Durability ²⁾	50.000 h
M12 connection	4 pol/pin
Profinet	per interface

¹⁾ Fully assembled with moulded Binder M12 female connector.

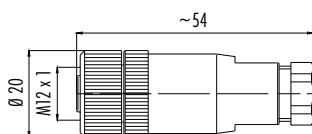
²⁾ Lifetime L70 life expectancy at 25 °C.

³⁾ 2m.



Original Binder Accessories

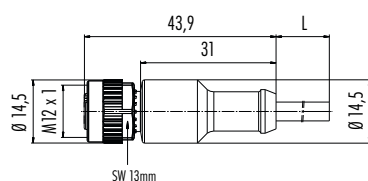
M12 female cable connector, screw clamp connection



TECHNICAL SPECIFICATIONS

Order Number	28 1206 000 00
Number of contacts	4
Cable outlet	4–6 mm
Dimensions connector	20 x 54 mm
Material of housing	PA
Wire gauge	max. 0,75 mm ² (max. AWG 20)
Degree of protection	IP67

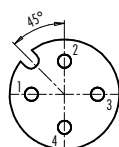
M12 female cable connector, moulded



TECHNICAL SPECIFICATIONS

Order Number	2m 28 1207 000 02 5m 28 1207 000 05
Overmolded	yes
Dimensions connector	14,5 x 43,9 mm
Cable material	PUR
Pins	4 x 0,34 mm ²
Length (other lengths on request)	2 m, 5 m
Degree of protection ¹⁾	IP67, IP68 ²⁾ , IP69K

Contact arrangement female insert (mating side)



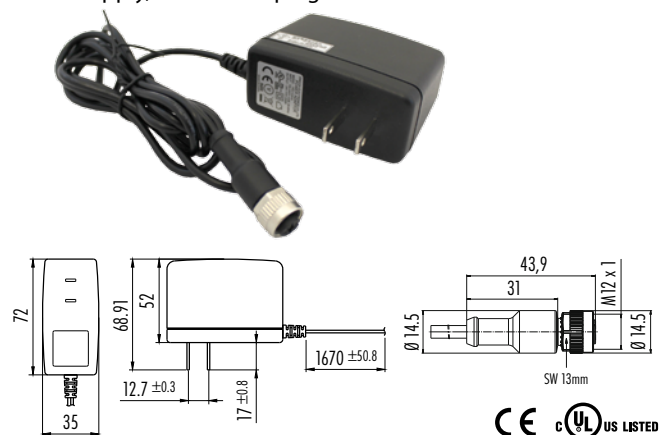
- 1 brown = + 24 V
- 2 white = free
- 3 blue = 0 V DC
- 4 black = free

¹⁾ Fully assembled with moulded Binder M12 female connector.
²⁾ 2m.



Accessories

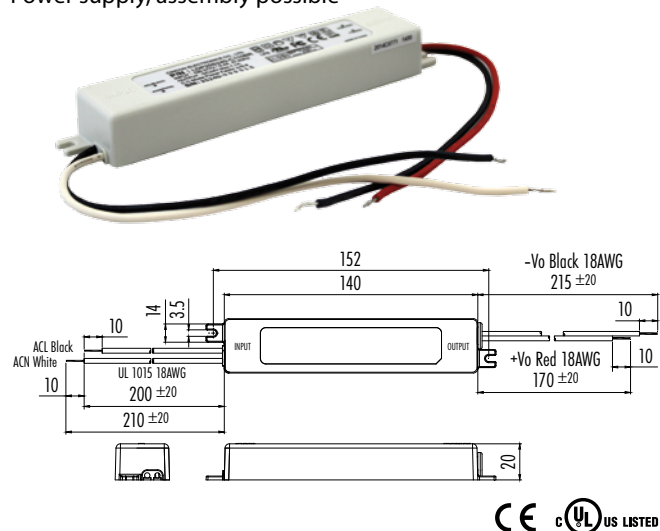
Power supply, with NEMA plug



TECHNICAL SPECIFICATIONS

Order Number	28 1204 000 US
Input	100-240 V, 50/60 Hz
Output	24 V DC, 0.63 A
Rated Power	25 W
Ta/Ta	0°C /+ 60°C
Tc/Tc	- 20°C /+ 85°C
Short-circuit proof	yes
Efficiency	83 %
Feature	CE, UL

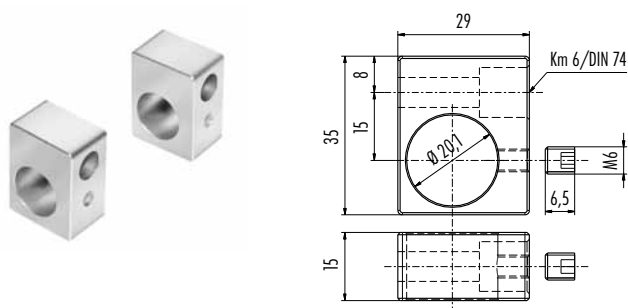
Power supply, assembly possible



TECHNICAL SPECIFICATIONS

Order Number	28 1205 000 US
Input	100-277 V, 47/63 Hz
Output	24 V, 1.1 A
Rated Power	25 W
Ta/Ta	- 40°C /+ 50°C
Tc/Tc	- 40°C /+ 85°C
Short-circuit proof	yes
Efficiency	86 %
Feature	CE, UL

Fixing elements, two pieces



TECHNICAL SPECIFICATIONS

Order Number	28 1203 000 00
Material	Alu anodized rounded edges
Fixing screw (material)	PVC

LIGHT HEATS UP

LIGHT ILLUMINATES

LIGHT PROVIDES HAPPINESS

LIGHT IS LIFE

Most important in short form

■ LED light

Contacts	Length	Luminosity	Ordering-No.
4	250 mm	277 lm	28 1200 000 04
4	358 mm	380 lm	28 1201 000 04
4	412 mm	569 lm	28 1202 000 04

■ M12 female cable connector

Contacts	Cable outlet	Ordering-No.
4	4–6 mm	28 1206 000 00

■ M12 female cable connector, moulded

Contacts	Cable jacket	Luminosity	Ordering-No.
4	PUR	2 m	28 1207 000 02
		5 m	28 1207 000 05

■ Power supply, with NEMA Plug

Ordering-No.
28 1204 000 US

■ Power supply, assembly possible

Ordering-No.
28 1205 000 US

■ Fixing elements

Material	Screw size	Ordering-No.
Alu	M6	28 1203 000 00

