®

Kellermann
www.kellermann-online.com

The right direction...
for all those who know the way!

Contents

micro 1000 Extreme

All-rounder

The micro 1000 Extreme is the brightest Kellermann indicator of all-time. It is highly versatile and is the first Kellermann indicator that can be used in multiple applications including quads, cars and trailers (homologated according to ECE 6). The micro 1000 Extreme can be installed within 20 mm to the main headlamp. Kellermann HighPower LED Technology** uses two LEDs producing an extraordinarily bright indicator. Due to this greater illumination it is recognized much more quickly in traffic providing for maximum road safety*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front and rear

Applicable on all vehicles
(e. g. motorcycles, quads, cars, Super Seven, trailers, etc.)

- *Extreme light power*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter protects the indicator from vibration damage and vandalism*

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MOTORRAD testsieger
edition 3/2013

Item	Style	Part No.	Unit
micro 1000 Extreme with clear glass	1 chrome	160.100	one
	2 black	160.200	one

micro 1000

5

micro 1000 PL

Lighting the way

The PL version of our micro 1000 LED indicators comes with additional integrated position lights. With modern high-performance-LEDs and our specially control technology** the micro 1000 PL provide better visibility in road traffic. In addition, they also allow others in traffic to better estimate your speed. Connected about the instrument lighting***, the increased power and crystal clear double look creates the impression of daylight-bright lights. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

*** The existing side light must be deactivated.

ECE-tested for front

- *Increased safety through improved visibility*
- *Replaces the existing position light as well as the indicator*
- *Sensational new front look*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 6 and 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*

Item		Style	Part No.	Unit
micro 1000 PL with clear glass	1	chrome	141.100	one
	2	black	141.200	one

© http://www.kodlin.com

© http://www.cult-werk.com

micro 1000 DF & micro 1000 DF Dark

Simply Triple

Our innovative indicator-brake-rear light combination in the stylish micro 1000 housing makes it possible to take a new direction when individualizing the rear of your bike. The original tail light can be eliminated. The micro 1000 DF/DF Dark are made to the highest standards of quality and are now available with the option of clear or dark tinted lenses.

The characteristically bright double rear lights of the micro 1000 DF/DF Dark sets new standards. Using our tried and tested Kellermann HighPower LED Technology** coupled with its compact housing translates to an extremely lightweight unit. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for rear

- *Replaces the existing brake/rear light as well as the indicator*
- *Sensational new rear look* ■ *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing* ■ *Suitable for 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*

Item	Style	Part No.	Unit
micro 1000 DF with clear glass	1 chrome	140.100	one
	2 black	140.200	one
micro 1000 DF Dark with strongly tinted glass	3 black	143.100	one

micro 1000 DF   micro 1000 DF Dark

© http://www.maniacmechanix.com

micro 1000 Dark

The 'Dark' Side of Kellermann

The micro 1000 Dark has two faces: black as the night / and bright as the day. The combination of the perfect light, the Kellermann HighPower LED Technology** and the strongly tinted glass offers new styling options. For your motorcycle the micro 1000 Dark hides what's inside – while the high-performance-LEDs provide a spectacularly bright indicator signal, they are hidden behind the tinted glass when not in use. Together with the BL 1000 Dark it offers a perfect look. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front and rear

- **Strongly tinted glass – spectacularly bright**
- **Kellermann HighPower LED Technology**
- **Long Life Protection Guard®, IC operated, 330 kHz**
- **High quality metal housing**
- **Suitable for 12 volt DC applications**
- **With M8 x 20 thread**
- **Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism**

Item	Style	Part No.	Unit
micro 1000 Dark with strongly tinted glass	① black	142.100	one

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© http://www.cult-werk.com
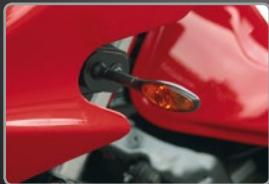
micro 1000 LED & micro 1000 LED white

Long lasting

The micro 1000 LED replace the rear as well as the front indicators because of their bright beam. Thanks to our specially control technology** the micro 1000 LED series offers an especially high light output with almost unlimited life span. They are available in either modern clear or in the classic yellow glass versions. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front and rear

- *Improved safety because of brightness and direct response of the LED*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 6 and 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*
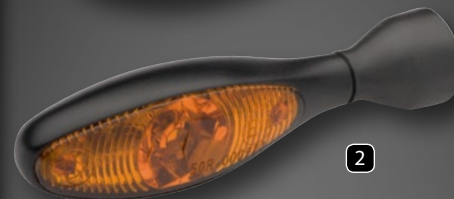
Item		Style	Part No.	Unit
micro 1000 LED with yellow glass	1	chrome	125.100	one
	2	black	125.200	one
micro 1000 LED white with clear glass	3	chrome	127.100	one
	4	black	127.200	one

micro 1000 LED   micro 1000 LED white

micro 1000 Halogen

The pillion

This classic rear indicator combines tested Halogen technology with stylish, timeless design. Its compact build and high quality metal housing mean reduced weight. It is the ideal companion to our BL 1000 series handlebar end indicators.
Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

ECE-tested for rear

- *6 Watt Halogen lamp*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*

3 YEARS WARRANTY

Made in Germany
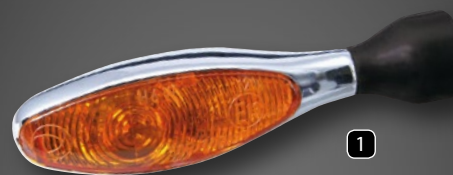
Item	Style	Part No.	Unit
micro 1000 Halogen with yellow glass	**1** chrome	123.100	one
	2 black	123.200	one

micro Rhombus Extreme

Taking Extreme to the next level

The micro Rhombus Extreme is an absolute eye-catcher! Not only does is boast a sensational design, but also the new Extreme model is one of the brightest Kellermann indicators available. Never before has there been such versatility allowing use in multiple applications including quads, cars and trailers (homologated according to ECE 6). The micro Rhombus Extreme can be installed within 20 mm to the main headlamp. Kellermann HighPower LED Technology** uses two LEDs producing an extraordinarily bright indicator. Due to this greater illumination it is recognized much more quickly in traffic providing for maximum road safety*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front and rear

Applicable on all vehicles
(e. g. motorcycles, quads, cars, Super Seven, trailers, etc.)

- *Extreme light power*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter protects the indicator from vibration damage and vandalism*

Item		Style	Part No.	Unit
micro Rhombus Extreme with clear glass	1	chrome FL/RR*	166.100	one
	2	chrome FR/RL**	166.150	one
	3	black FL/RR*	166.200	one
* front left / rear right ** front right / rear left	4	black FR/RL**	166.250	one

micro Rhombus PL

Alpha indicator

The micro Rhombus indicator has a striking design that is also available with bright position lights. Thanks to modern high-performance-LEDs and our specially control technology**, the micro Rhombus PL ensures better visibility in road traffic. In addition, they also allow others in traffic to better estimate your speed. Connected about the instrument lighting***, the increased power and crystal clear double look creates the impression of daylight-bright lights. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

*** The existing side light must be deactivated.

ECE-tested for front

- *Increased safety because of improved visibility*
- *Replaces the existing position light as well as the indicator*
- *Sensational new front look*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 6 and 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*

Item		Style	Part No.	Unit
micro Rhombus PL with clear glass	1	chrome FL*	147.100	one
	2	chrome FR**	147.150	one
	3	black FL*	147.200	one
* front left ** front right	4	black FR**	147.250	one

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© http://www.kodlin.com

micro Rhombus DF & micro Rhombus DF Dark

1 + 1 = 3

Our innovative indicator-brake-rear light combination in our distinctive micro Rhombus housing offers new styling options for the rear of your bike. The original tail light can be eliminated. Made to the highest standards of quality, the micro Rhombus DF/Rhombus DF Dark are now available with the option of clear or dark tinted lenses. With its characteristically bright double rear lights the micro Rhombus DF/DF Dark are the latest trend in indicator design. Kellermann HighPower LED Technology** coupled with its compact housing translates to an extremely lightweight unit. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for rear

- *Replaces the existing brake/rear light as well as the indicator*
- *Sensational new rear look*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*

Item		Style	Part No.	Unit
micro Rhombus DF with clear glass * rear right ** rear left	1	chrome RR*	146.100	one
		chrome RL**	146.150	one
		black RR*	146.200	one
	2	black RL**	146.250	one
micro Rhombus DF Dark with strongly tinted glass * rear right ** rear left	3	black RR*	149.100	one
		black RL**	149.150	one

micro Rhombus DF   micro Rhombus DF Dark

micro Rhombus Dark

Undercover

The micro Rhombus Dark combines black styling with daylight-bright performance. The combination of the perfect light, the Kellermann HighPower LED Technology** and the strongly tinted glass offers new styling options for your motorcycle. The micro Rhombus Dark hides what's inside – while the high performance LEDs provide a spectacularly bright light, when not in use they are hidden perfectly behind the tinted glass. Combining the front and rear, they offer a perfect look. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front and rear

- *Strongly tinted glass – spectacularly bright*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*

Item		Style	Part No.	Unit
micro Rhombus Dark with strongly tinted glass	**1**	black FL/RR*	148.100	one
* front left / rear right ** front right / rear left	**2**	black FR/RL**	148.150	one

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© http://www.thunderbike.de

micro Rhombus

Corners and edges

The micro Rhombus stands for recognizable, striking design. Its distinct shape creates a unique style. Supplied in a stylish metal housing, the micro Rhombus has a very wide light beam. An almost unlimited lifespan is guaranteed with our specially control technology**. The micro Rhombus replaces the front as well as the rear indicators and gives a new look. Suitable for all motorcycle models*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front and rear

- *Improved safety because of the brightness and direct response of the LED*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 6 and 12 volt DC applications*
- *With M8 x 20 thread*
- *Replaceable flexible rubber adapter which protects the indicator from vibration damage and vandalism*

Item		Style	Part No.	Unit
micro Rhombus with clear glass	1	chrome FL/RR*	126.100	one
	2	chrome FR/RL**	126.150	one
	3	black FL/RR*	126.200	one
* front left / rear right ** front right / rear left	4	black FR/RL**	126.250	one

Accessories micro series

Item	Style		Part No.	Unit	Item	Style		Part No.	Unit
Flexible rubber adapter 2016	1	M8 x 40	123.610	one	**Extension** M6 x 10	9	chrome	123.870	one
	2	M8 x 20	123.620	one		10	black	123.872	one
Rigid mounting M8 x 20	3	chrome	123.850	one	**Extension** M8 x 30	11	black	123.630	one
	4	black	123.852	one	**Adapter** M8-M12	12		123.810	one
Rigid mounting M8 x 40 (Harley)	5	chrome	123.820	one	**Halogen lamp** 12V/H6W	13		123.900	one
	6	black	123.822	one	**Indicator glass micro 1000**	14		123.910	one
Ball head adapter for angled applications	7	chrome	123.730	one	**Indicator glass micro 1000 evo**	15		123.912	one
	8	black	123.735	one	**Bulb holder micro 1000**	16		123.930	one
					Bulb holder micro 1000 evo	17		123.931	one
					Posi-Lock cable connector		set of 9, 27 x 7 mm	123.955	one
							set of 5, 27 x 7 mm	123.956	one
					Posi-Lock cable connector MINI		set of 5, 19 x 5 mm	123.957	one

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Mounting plates

Item	Part No.	Unit	Item	Part No.	Unit	Item	Part No.	Unit
Mounting plate for Honda ISH1 **1**	123.754	pair	Mounting plate for Suzuki **4**	123.750	pair	Mounting plate for Yamaha ISY1 **7**	123.756	pair
Mounting plate for Kawasaki ISK1 **2**	123.755	pair	Mounting plate for Suzuki ISS1 **5**	123.752	pair	Mounting plate for Yamaha ISY2 **8**	123.757	pair
Z750 Kawasaki front conversion kit **3**	123.758	pair	Mounting plate for Suzuki ISS2 **6**	123.751	pair	Mounting plate for Italien bikes **9**	123.753	pair

The mounting plates are suitable for all indicators with M8 thread (micro 1000, micro Rhombus and Bullet 1000 series).
You can see if the mounting plates support your motorcycle by checking at www.kellermann-online.com, or call us on 0049 (0)241 93808-0.
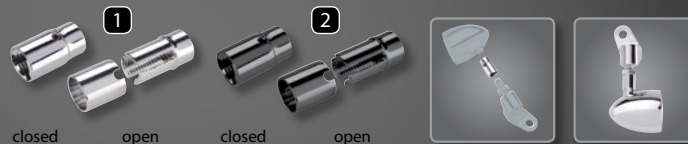
Accessories Bullet series

Item	Style	Part No.	Unit
Rigid mounting M8 x 20	**1** chrome	180.850	one
	2 black	180.852	one
	3 matte chrome	180.856	one
Rigid mounting M8 x 40 (Harley)	**4** chrome	180.820	one
	5 black	180.822	one
	6 matte chrome	180.826	one

Bullet Adapter HD

Adaptor to directly install the Bullet 1000 indicators on the original mount in front of Harley Davidson motorcycles.

Item	Style	Part No.	Unit
Bullet Adapter HD	**1** chrome	180.730	one
	2 black	180.735	one

closed   open   closed   open

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Bullet 1000

Classic meets Hightech

The Bullet 1000 was created with a clear goal: An indicator with the classic bullet look and a classy Kellermann design, but equipped with modern LED technology. A newly developed light technology (Kellermann-HPT®) creates a homogenous ring of light. Design quality is not only a question of shape and surfaces but also a result of the complete look and feel when the lights are on. The high quality metal housing with a maximum diameter of 39 mm is like a jewel on the motorcycle. It is available in chrome, black and matte chrome. The Bullet 1000 works with any sophisticated bike design.

The Bullet 1000 comes in three different technical versions: Extreme indicator, indicator with yellow position light and indicator with rear and break light.

Bullet 1000 Extreme

The Bullet 1000 Extreme is a pure indicator with high luminosity and has the ECE-R 6 approval for all vehicles. The big advantage of the indicator is that you can install it closer to the main light than normal indicators, giving you more options to customize your bike. The continuous light ring shows the LED typical fast response** combined with Bullet typical soft response of the inner light section. Altogether a harmonic indicator performance that blends in with the great overall look and feel of this amazing product.*

* A load-independant relay or power resistors may be required to match indicators signal frequency.
** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front and rear

Applicable on all vehicles (e. g. motorcycles, quads, cars, Super Seven, trailers, etc.)

- *Special flashing effect*
- *Unique and homogeneous light ring*
- *Extreme light power*
- *HPT®- Homogenous Projection Technology*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*
- *With M8 x 20 fastening screw*
- *European design protection*

reddot design award
best of the best 2015

Item	Style	Part No.	Unit
Bullet 1000 with clear glass	**1** chrome	182.100	one
	2 black	182.200	one
	3 matte chrome	182.400	one

You can find up-to-date information, accessories and mounting examples at: http://www.kellermann-online.com

Subject to technical modifications.

Bullet 1000

Classic meets Hightech

The Bullet 1000 was created with a clear goal: An indicator with the classic bullet look and a classy Kellermann design, but equipped with modern LED technology. A newly developed light technology (Kellermann-HPT®) creates a homogenous ring of light. Design quality is not only a question of shape and surfaces but also a result of the complete look and feel when the lights are on. The high quality metal housing with a maximum diameter of 39 mm is like a jewel on the motorcycle. It is available in chrome, black and matte chrome. The Bullet 1000 works with any sophisticated bike design.

The Bullet 1000 comes in three different technical versions: Extreme indicator, indicator with yellow position light and indicator with rear and break light.

Bullet 1000 PL

The Bullet 1000 PL is an indicator with an integrated position light in the shape of a continuous yellow light ring. Together with the main light they boost the safety features of the bike. And once the indicator is activated the position lights support the indicator function by flashing in sync. After the indicator has been turned off the position light will resume its function. As the Bullet 1000 Extreme so does the Bullet 1000 PL offer the LED typical fast response** combined with Bullet typical soft response of the inner light section. Altogether a harmonic indicator performance that blends in with the great overall look and feel of this amazing product. The position lights can be mounted either on the original position light base or connected to the dashboard light of the motorcycle.*

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.
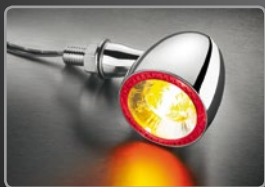
ECE-tested for front

- *Increased safety because of improved visibility*
- *Replaces the existing position light as well as the indicator*
- *Special flashing effect*
- *Unique and homogeneous light ring*
- *Extreme light power*
- *HPT®- Homogenous Projection Technology*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*
- *With M8 x 20 fastening screw*
- *European design protection*

Item		Style	Part No.	Unit
Bullet 1000 PL with clear glass	1	chrome	181.100	one
	2	black	181.200	one
	3	matte chrome	181.400	one

You can find up-to-date information, accessories and mounting examples at: http://www.kellermann-online.com

Subject to technical modifications.

Bullet 1000

Classic meets Hightech

The Bullet 1000 was created with a clear goal: An indicator with the classic bullet look and a classy Kellermann design, but equipped with modern LED technology. A newly developed light technology (Kellermann-HPT®) creates a homogenous ring of light. Design quality is not only a question of shape and surfaces but also a result of the complete look and feel when the lights are on. The high quality metal housing with a maximum diameter of 39 mm is like a jewel on the motorcycle. It is available in chrome, black and matte chrome. The Bullet 1000 works with any sophisticated bike design.

The Bullet 1000 comes in three different technical versions: Extreme indicator, indicator with yellow position light and indicator with rear and break light.

Bullet 1000 DF

The Bullet 1000 DF is a rear indicator in combination with a rear and break light function. It replaces the existing indicators, break and rear light. The light of the continuously glowing red rings give the tail of the motorcycle a spectacular look**. When breaking, the light circle of the break light shines strong and clear, the clear message to the following traffic is: Keep your distance. The Bullet 1000 DF at the tail and the Bullet 1000 PL or Bullet 1000 Extreme in the front are the perfect combination for your motorcycle.*

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.
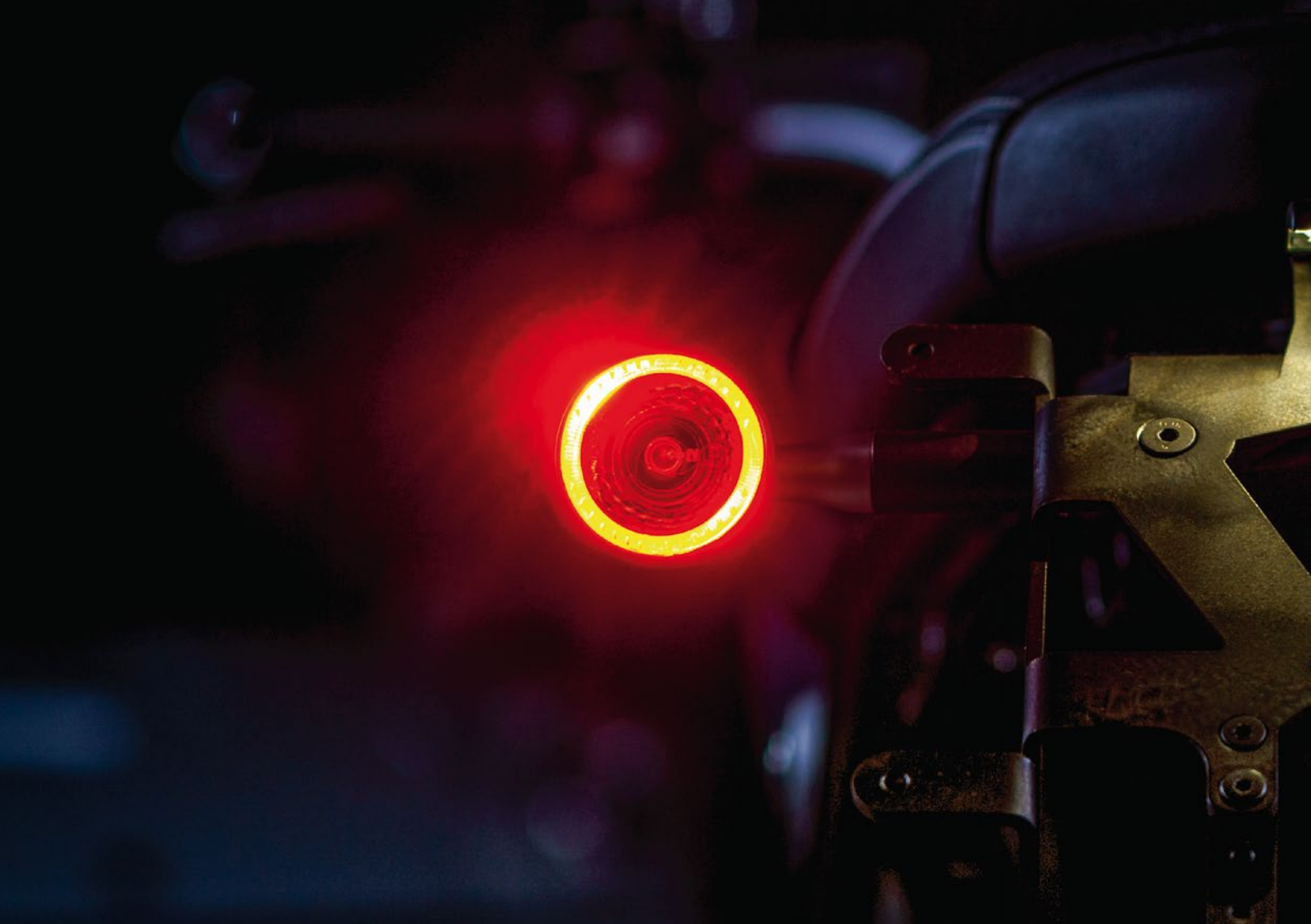
ECE-tested for rear

- **Replaces the existing brake/rear light as well as the indicator**
- **Special flashing effect**
- **Unique and homogeneous light ring**
- **Extreme light power**
- **HPT®- Homogenous Projection Technology**
- **Kellermann HighPower LED Technology**

- **Long Life Protection Guard®, IC operated, 330 kHz**
- **High quality metal housing**
- **Suitable for 12 volt DC applications**
- **With M8 x 20 fastening screw**
- **European design protection**

Item		Style	Part No.	Unit
Bullet 1000 DF with clear glass	**1**	chrome	180.100	one
	2	black	180.200	one
	3	matte chrome	180.400	one

You can find up-to-date information, accessories and mounting examples at: http://www.kellermann-online.com

Subject to technical modifications.

Kellermann & your bike

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© http://www.walzwerk-racing.com

BL 2000

Be seen but not seen

With the BL 2000 bikers can design the handlebar end of their bike in a new way and have a high performance indicator at the same time. For custom bikes, choppers, café racers and other chrome bikes the BL 2000 is a classy design option. Its tinted ring-shaped glass sits unobtrusively in the black metal housing.

Although the indicator mounts discreetly on the motorcycle, when in use it shows its true size and will surprise you with its highly noticeable bright flashing. This is achieved by the use of the very latest development in Kellermann HighPower LED Technology**. All necessary adapters are supplied for mounting on to most model handlebars*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front

- *Ring-shaped glass – spectacularly bright*
- *An indicator which is also an elegant complement to your handlebar*
- *Indicators visually merge into the bike when not in use*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

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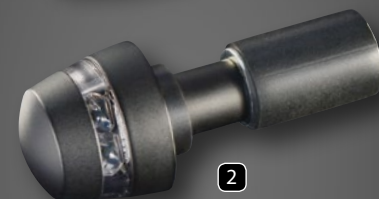
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reddot award 2014 winner

GOOD DESIGN

As awarded by
The Chicago Athenaeum:
Museum of Architecture and Design.

3 YEARS WARRANTY

Made in Germany

Item		Style	Part No.	Unit
BL 2000 Chrome with clear glass	**1**	chrome	110.100	one
BL 2000 Dark with strongly tinted glass	**2**	black	110.200	one

topview

driving direction

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BL 1000 PL

Showtime

See and be seen: the BL 1000 PL offers a high brightness integrated position light with the indicator. A newly proportioned housing shape creates a clean line at the handlebar end. Because of our specially control technology** and modern high-performance-LEDs mean improved visibility and speed recognition. Connected about the instrument lighting***, the increased power and crystal clear double look gives the impression of daylight-bright lights. As usual, the BL 1000 PL also dampens the vibrations of the handlebar. All necessary adapters are supplied for mounting on to most model handlebars*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

*** The existing side light must be deactivated.

ECE-tested for front

- *Increased safety because of improved visibility*
- *Replaces the existing position light as well as the indicator*
- *Sensational new front look*
- *Handlebar vibration damping function*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

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reddot design award
honourable mention 2011

Item	Style	Part No.	Unit
BL 1000 PL with clear glass	1 chrome	121.100	one
	2 black	121.200	one

3 YEARS WARRANTY

Made in Germany

topview

driving direction

40

BL 1000 LED

New, and already a classic

The BL 1000 LED is the latest development in handlebar end indicators. Our specially control technology**, the modern high-performance-LEDs and the innovative clear glass look mean performance as well as beautifully proportioned styling at the end of the handlebar.

The BL 1000 LED combines function with handlebar vibration damping. All necessary adapters are supplied for mounting on to most model handlebars*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front

- *Increased safety because of brightness and direct response of LEDs*
- *Handlebar vibration damping function*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

Item	Style	Part No.	Unit
BL 1000 LED with clear glass	**1** chrome	120.100	one
	2 black	120.200	one

topview

driving direction

BL 1000 Dark

Perfectly disguised

The BL 1000 Dark brings light into darkness and sets new standards in motorcycle design. This innovative design appears like a seamless extension of the handlebar. The latest high-performance-LEDs and our specially control technology** make for a spectacularly bright indicator signal.

The newly proportioned housing shape gives a clear line at the end of the handlebar. The BL 1000 Dark liberates styling from the restraints imposed by conventionally styled front indicators and combines indicating function with handlebar vibration damping. Combined with the micro 1000 Dark it gives a perfect look. All necessary adapters are supplied for mounting on to most model handlebars*.

* A load-independant relay or power resistors may be required to match indicators signal frequency.

** Combination out of the IC operated LONG LIFE PROTECTION GUARD® system with high-performance-LEDs latest type of construction.

ECE-tested for front

- *Strongly tinted glass – spectacularly bright*
- *Handlebar vibration damping function*
- *Kellermann HighPower LED Technology*
- *Long Life Protection Guard®, IC operated, 330 kHz*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

Item	Style		Part No.	Unit
BL 1000 Dark with strongly tinted glass	1	black	122.100	one

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© http://www.thunderbike.de

BL 1000 white

Tried and tested shape, modern look

The BL 1000 white perfectly combines the function of an indicator with that of handlebar vibration damping.

It will win you over with its proven technology, classical elegance and its xenon-blue reflective look.

All necessary adapters are supplied for mounting on to most model handlebars.

ECE-tested for front

- *Clear glass look with xenon-blue reflective look*
- *Handlebar vibration damping function*
- *21 Watt Halogen lamp*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

Item		Style	Part No.	Unit
Increased handlebar vibration damping (heavy version)	1	Brass chrome highly polished	128.100	one
	2	Brass black	128.700	one
Lighter weight handlebar vibration damping (light version)	3	Aluminium satin matt honed	128.210	one
	1	Aluminium polished	128.300	one
	2	Aluminium black	128.600	one

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© http://www.thunderbike.de

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BL 1000 yellow

Trademark - Kellermänner®

In the motor bike scene the noble products are true cult and only referred to as 'Kellerman's'. Our reliable technology and impressive handlebar vibration damping functionality come together in the bar end BL 1000. Machined from high quality materials, this timeless shape harmonizes perfectly with the micro 1000 series. All necessary adapters are supplied for mounting on to most model handlebars.

ECE-tested for front

- *Handlebar vibration damping function*
- *21 Watt Halogen lamp*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

Item		Style	Part No.	Unit
Increased handlebar vibration damping (heavy version)	1	Brass chrome highly polished	124.100	one
	2	Brass black	124.700	one
Lighter weight handlebar vibration damping (light version)	3	Aluminium satin matt honed	124.210	one
	1	Aluminium polished	124.300	one
	2	Aluminium black	124.600	one

Accessories BL series

Accessories

all BL 1000 / BL 2000

Item	Style	Part No.	Unit
Posi-Lock cable connector	set of 9, 27 x 7 mm	123.955	one
	set of 5, 27 x 7 mm	123.956	one
Posi-Lock cable connector MINI	set of 5, 19 x 5 mm	123.957	one
Rubber adapter set (mounting rubber + nut)	**1** type 1 (from 11,5 mm)	100.911	one
	2 type 2 (from 16,5 mm)	100.924	one
	3 type 3 (from 20 mm)	100.921	one

BL 1000 yellow / BL 1000 white (Halogen)

Item	Style	Part No.	Unit
BL 1000 F glass (yellow)	**4** only for BL 1000	100.902	one
BL 1000 R glass (yellow)	**5** only for BL 1000	100.903	one
Halogen lamp 12V / H21W	**6**	100.153	one
Bulb holder	**7**	100.930	one
Multi-function piece	**8** (without mounting rubber + nut)	100.901	one
BL 1000 cable with earth contact		100.904	one
Earth cable with small nut	**9** for type 2 (from 16,5 mm)	100.912	one
Earth cable with large nut	**10** for type 3 (from 20 mm)	100.922	one

Exchange Component Options

BL1000 exchange component options

Item	Part No.	Unit
Brass chrome highly polished*	124.101	one
Brass black*	124.701	one
Aluminium satin matt honed**	124.211	one
Aluminium polished**	124.301	one
Aluminium black**	124.601	one

BL1000 white exchange component options

Item	Part No.	Unit
Brass chrome highly polished*	128.101	one
Brass black*	128.701	one
Aluminium satin matt honed**	128.211	one
Aluminium polished**	128.301	one
Aluminium black**	128.601	one
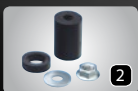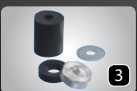
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

From old make new:
The exchange components of the BL 1000 white can also be easily interchanged with components used for the yellow glass BL 1000.

* Increased handlebar vibration damping (heavy version)
** Lighter weight handlebar vibration damping

Resistors

When changing the original indicators to LED or Halogen the indicating frequency is automatically altered. This is adjusted for parallel switched power resistors. The right selection of the suitable power resistors is listed in the table below.

If you are not sure which resistor you need, please don't hesitate to contact us via the contact form (Technical Dept) on our homepage.

Item		Style	Part No.	Unit	Required resistor when changing to Kellermann indicators (per indicator)				
					Power intake of original indicators	micro 1000 Halogen	micro 1000 LED micro Rhombus	BL 1000 Halogen	BL 1000 LED BL 2000	Bullet 1000
Resistor	1	10 Ohm	123.950	one	21 Watt	123.950	123.952	-	123.952	123.952
	2	7,5 Ohm	123.952	one	Required resistor when changing to Kellermann indicators (per side)					
	2	33 Ohm	123.953	one	10 Watt	123.950	123.950	-	123.950	123.950

When using micro 1000 DF and a light control bulb, 1 additional resistor at 33 Ohm for the rear light and 1 additional resistor at 7,5 Ohm for the brake light are required.

Adaptation devices

Many new vehicles operate their indicators with an electronic control module instead of a conventional indicator relay, therefore the exchange of the indicators might require special solutions.

	Part No.	Unit	
Adaptation device type 1 suitable for vehicles with 12 volt indicator application	123.967	set	For example when mounting - indicators with higher wattage than original - indicators on vehicles where the ground is „plus" but not „minus" as usual - „DF" products on vehicles where the indicators ground is switched but not the plus as usual
Adaptation device type 2 suitable for vehicles with 5-9 volt indicator application	123.966	set	For example when mounting - indicators with higher wattage than original - indicators with higher voltage than original - indicators on vehicles where the ground is „plus" but not „minus" as usual

Our research and development team is constantly working on new and optimized solutions for all types of vehicle models. If you are not sure, which control unit you need please do not hesitate to contact us via telephone or the contact form (technical department) on our website.

Flasher Relay R 1

Micro relay for the pros

The R 1 flasher relay has very small dimensions and flashes independently of load at a steady 75 pulses per minute. It also has a connection available for the flasher dashboard light. It is easily installed into the feed to the indicator switch, or can be swapped with the original 2-3 pole flasher relay. It is therefore suitable for all motorcycles with indicator switches. Should the change to LED indicators result in the non-intentionally activated indicators also flashing; then the indicator control light must also be connected to the R 1 relay. The 'hazard warning' effect will then be effectively cured.

All necessary components required for installation are included.

ECE-tested

- *Simple installation in feed to the indicator switch or swap the original 2-3 pole flasher relay*
- *Connection to indicator control light also possible*
- *Restricts the accompanying flashing of non-activated indicators*
- *Load-independent / steady flash rate (75/min)*
- *Switching capacity 0,5-50 watt*
- *Very small dimensions 22 x 12 x 6 [mm] (L/W/H)*
- *Suitable for indicator switches*
- *Suitable for 6 and 12 volt DC applications*

A detailed functional overview can be found on page 66.
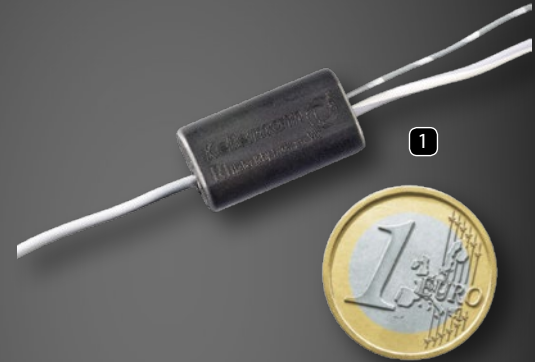
Item	Part No.	Unit
Flasher relay R 1	1 123.965	one

Made in Germany

3 YEARS WARRANTY

Flasher Relay R 2

The Classic

The load-independent R 2 flasher relay is the universal problem solver when using LED and halogen indicators. It replaces all original 2-3 pole flasher relays and delivers a constant and correct flashing frequency. Connection is simple. If following the conversion to LED indicators, the non-activated indicators also flash, then all that is required is for the relay to be connected to a left and a right indicator in order to reliably cure this problem*.

All necessary components required for installation are included.

* In certain cases the hazard warning flasher facility must be deactivated.

ECE-geprüft

- *Replaces the original 2-3 pole flasher relay*
- *Restricts the accompanying flashing of non-activated indicators*
- *Load-independent / usual flash rate (90/min)*
- *Switching capacity 0,5-85 watt*
- *Small dimensions 34 x 22 x 12 [mm] (L/W/H)*
- *High quality metal housing*
- *Suitable for indicator switches*
- *Suitable for 12 volt DC applications*
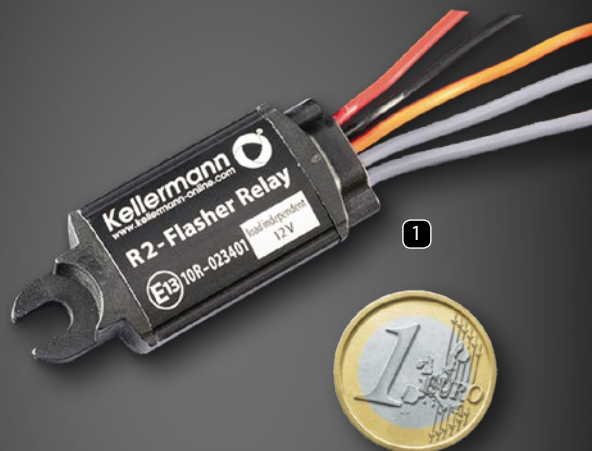
Item	Part No.		Unit
Flasher relay R 2	**1** 123.970		one

Made in Germany

3 YEARS WARRANTY

Flasher Relay R3 optimised for indicator buttons

A smart module

This high-end flasher module is a smart unit over and above other exchange flasher relays. It is configured with intuitive smart functions and has an integrated warning flasher and alarm system built-in. As with all Kellermann flasher relays, the in some cases occurrence of unwanted additional flashing of non-activated indicators has also been cured.

The unit can be switched between two convenience function modes:

Mode 1 - Button mode without convenience function:	Mode 2 - Button mode with convenience functions:	Mode 3 - Switch mode with convenience function:

• flashes until the same button is pressed again	When a button is
	• pressed for approx 0.5 second:
	  8 flash cycles
	• pressed for approx 1.5 seconds:
	  flashes until the button is pressed again
	• pressed for longer than 2.5 seconds:
	  flashes until the button is released
		• A short 'indicator on – indicator off' triggers five flasher cycles. This lets the rider quickly return to concentrating on their turn, or overtaking manoeuvre. The sequence can be interrupted at any time by switching 'on /off' in the same turn direction.

And the hazard warning flasher can run without the ignition key, until shut of manually or by the battery protection switching.

The alarm unit signals thieves its readiness with a control light and reacts on movements or shocks with warning signals from horn and indictors. The alarm is set by the very simple method of turning the ignition on/off twice in quick succession (on /off, on /off). In addition it also has an integrated flasher reset memory and battery protection. Should the supply voltage drop below a limiting value, the alarm system switches off in order to prevent damage taking place to the battery. Despite the unit's many functions, connection is very simple on vehicles with indicator buttons.

ECE-tested

Flasher Unit With Convenience Functions + Hazard Warning Unit + Alarm Unit

- **Simple exchange relay installation at indicator buttons**
- **Hazard warning flasher can be activated without additional hazard switch**
- **Alarm unit responds to changes in position and vibration**
- **Battery protection switching (undervoltage protection)**
- **Restricts the accompanying flashing of non-activated indicators**
- **Load-independent / steady flash rate (75/min)**
- **Indicator switching capacity 0.5-85 watt (max. 42.5 watt per side)**

- **With horn switch port (max. 50 watt), works as a power horn relay**
- **Intuitive operation**
- **Indicator reset memory**
- **Slim housing 95 x 22 x 12 [mm] (L/W/H) for installation almost anywhere on the motorcycle**
- **High quality metal housing**
- **Suitable for 12 volt DC applications**

A detailed functional overview can be found on page 66.

Item	Part No.		Unit
Flasher Relay R3	❶	123.975	one
Accessories: signal generator 110 dB		123.976	one
Accessories: fuse holder		123.959	one

Made in Germany

3 YEARS WARRANTY

Flasher Relay CR 4

Indicate, Warn, Alarm, Break, Start and much more

The Kellermann CR 4 is the ultimate all-in-one solution for motorcycles with indicator switch. The load independent indicator relay elevates the functionality of older motorcycles to an up-to-date level and even optimizes the electronics of currently released bikes. As with all Kellermann flasher relays, the in some cases occurrence of unwanted additional flashing of non-activated indicators has also been cured. For the biker the CR 4 has many new controlling options on offer: Indicate, warn, alarm, break, start, und much more. But the clear message is: Only use what you really want. The biker decides what functions the Kellermann CR 4 should control. The integrated flasher relay offers one convenience function: A short 'indicator on – indicator off' triggers five flasher cycles. This lets the rider quickly return to concentrating on their turn, or overtaking manoeuvre. The sequence can be interrupted at any time by switching 'on /off' in the same turn direction.

But the magic box can do much more: It's also a hazard flasher, an alarm unit, an adaptive break light and a starter assistant.

And the hazard warning flasher can run without the ignition key, until shut of manually or by the battery protection switching.

The alarm unit signals thieves its readiness with a control light and reacts on movements or shocks with warning signals from horn and indictors. The alarm is set by the very simple method of turning the ignition on/off twice in quick succession (on /off, on /off). In addition it also has an integrated flasher reset memory and battery protection. Should the supply voltage drop below a limiting value, the alarm system switches off in order to prevent damage taking place to the battery.

The adaptive break light makes the ride safer. Emergency or very strong breaking will create a flashing break light that will urgently warn the following traffic.

The starter assistant lets the engine start after the hand break is pulled three times.

Despite the unit's many functions, it can be installed rather easily the wires connect directly to the indicator relay.

ECE-tested

Flasher Unit With Convenience Functions + Hazard Warning Unit + Adaptive Brake Light + Starter Assistant + Alarm Unit

- *Suitable for indicator switches*
- *Very simple exchange relay installation*
- *Replaces the original 2-3 pole flasher relay*
- *Hazard warning flasher can be activated with and without additional hazard switch*
- *Alarm unit responds to changes in position and vibration*
- NEW *Alarm sensibility adjustable in 10 steps*
- *Alarm Unit with external alarm sensor port*
- *Battery protection switching (undervoltage protection)*
- *Restricts the accompanying flashing of non-activated indicators*
- *Load-independent / steady flash rate (75/min)*

- *Indicator switching capacity 0.5-85 watt (max. 42.5 watt per side)*
- *With horn switch port (max. 50 watt), works as a power horn relay*
- *Intuitive operation*
- *Indicator reset memory*
- *Slim housing 128x22x12 [mm] (L/W/H) for installation almost anywhere on the motorcycle*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

A detailed functional overview can be found on page 66.

Item	Part No.		Unit
Flasher Relay CR 4	**1**	123.980	one
Accessories: signal generator 110 dB		123.976	one

License Plate Light KL 1

Small, compact, legal

The KL 1 license plate light with its micro size and unique design is a cool addition to any motorcycle. Thanks to its specially developed optics, the license plate can be lit completely by pure white (CRI>80) light. In its high quality metal housing, the KL 1 can be fixed using the accompanying mounting strips to the license plate bracket or also directly onto the license plate itself. Instead of the accompanying bracket, the user's own bracket can also be used. A tab sized 6x7x3 cm (LxWxH) is required.
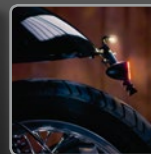
Suitable for all motorcycle models.

ECE-tested

- *Compact micro size*
- *Pure white light (CRI>80)*
- *High quality metal housing*
- *Suitable for 12 volt DC applications*

reddot award 2014
winner

Item	Part No.	Unit
License plate light KL 1	1 170.100	one

License Plate Holder KH 2000 with KL 1

Less is more

The new license plate holder comes in a package with the compact license plate light KL 1. With its light weight design and different variation possibilities of indicator positioning the KH 2000 really offers many options to design the rear of the bike. The included license plate light KL 1 with its micro size and unique design is also a cool addition to any motorcycle. The KH 2000 fits on all existing vehicle adapters and custom solutions.*

 * Vehicle-specific adapters are used (see page 57).

ECE-tested

- **CNC-milled**
- **Lightweight construction**
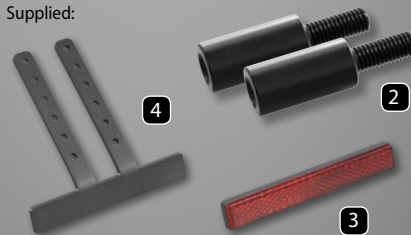- **Many variation possibilities of indicator positioning**

Supplied:

Item		Style	Part No.	Unit
KH 2000 with KL1	**1**	black	170.600	one

Accessories for KH 2000 series

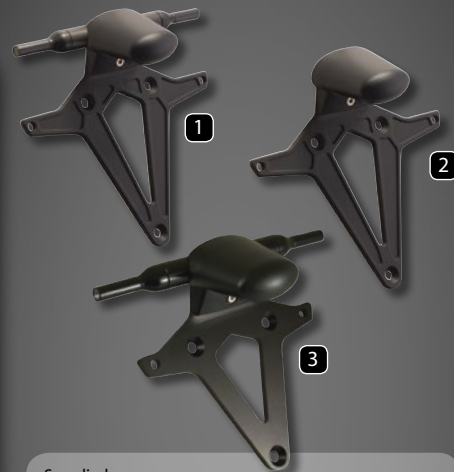|				
bracket (M8x30, VA)	**2**	black	123.630	one
Reflector 100 x 13 mm (with M5 thread bolt)	**3**		170.830	one
Reflector carrier	**4**		170.831	one
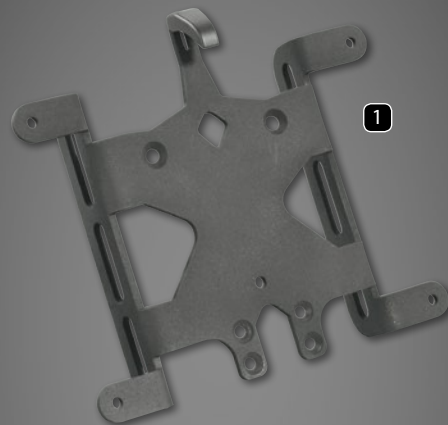
License Plate Holders KH 1000

Top performer

The KH 1000 with a range of functions is milled from high tensile aluminum, and depending upon the model, features indicator, license plate light and reflector. The subtle but stable design gives an exclusive look with considerable weight saving. The KH 1000 is available with and without indicator holder (for Kellermann micro 1000 series). The indicator holder is matched to the Kellermann micro 1000 series. M8 and M10 adapters available for use with other manufacturers' indicators. For license plate holders smaller than the German norm, there is also now a smaller model (3) of the license plate holder available. Because of the modular build of the KH 1000 you can determine shape, function and design.*

* Vehicle-specific adapters are used (see page 57).

- **CNC-milled**
- **Lightweight construction**
- **Many variation possibilities**

Supplied:

Hole spacing dimensions in mm

Accessories KH 1000 series

Item	Style	Part No.	Unit
License plate illumination		170.800	one
Reflector 90 x 30 mm (with M5 thread bolt)	4	170.810	one
Reflector carrier	5	170.811	one
License plate light W5W (lamp)		170.900	one
Flexible rubber adapter KH 1000		170.620	one
Rigid mounting KH 1000	black	170.635	one
Adapter for other indicators M10	black	170.816	one
Adapter for other indicators M8	black	170.820	one

Item		Style	Part No.	Unit
KH 1000 with indicator holder	1	black	170.400	one
KH 1000 without indicator holder	2	black	170.450	one
KH 1000 small with indicator holder	3	black	170.405	one

© http://www.khmoto.de

Vehicle Adapters

Item	Style	Part No.	Unit
BMW			
R 1100 S MJ 98-05	black	175.005	one
R nineT [1]	black	175.007	one
Honda			
CBR 600 RR MJ 03-06	black	173.015	one
CBR 600 RR MJ 07-10 [2]	black	173.016	one
CBR 900 RR MJ 02-03	black	173.005	one
VFR 800 V-Tec MJ 02-05 (KH 170.450 recommended)	black	173.035	one
Suzuki			
Suzuki B-King [3]	black	171.055	one
GSR 600 MJ 06-10	black	171.016	one
GSXR 600 / 750 MJ 04-05	black	171.015	one
GSXR 600 / 750 MJ 06-07 [4]	black	171.017	one
GSXR 1000 MJ 03-04	black	171.005	one

Item	Style	Part No.	Unit
GSXR 1000 MJ 05-06	black	171.006	one
GSXR 1000 MJ 07-08	black	171.007	one
SV 1000 MJ 03-05	black	171.035	one
SV 650 MJ 03-08	black	171.046	one
Triumph			
Speed Triple MJ 05-08	black	175.505	one
Daytona 675 MJ 06-10 [5]	black	175.515	one
Yamaha			
FZ6 / FZ6 Fazer MJ 04-10	black	176.025	one
R1 MJ 04-08	black	176.006	one
R6 MJ 01-02	black	176.015	one
R6 MJ 03-05	black	176.016	one
FZ1 MJ 06-10	black	176.045	one
FZ1 Fazer MJ 06-10 [6]	black	176.046	one

Fitments for further models are always in preparation (info@kellermann-online.com or 0049 (0)241/93808-0)
All items avaiable while stocks last.

Handlebar End Weights LS Classic & LS 1000

VA

3 YEARS WARRANTY

Made in Germany

Type A
For handlebars with
an inner diameter of
11-16 mm

Type S
For handlebars with
an inner diameter of
17-21 mm

Type K
For handlebars with
M8 thread at the
handlebar end

Type Y
For handlebars with
M16 thread at the
handlebar end

Type S/H
For handlebars
with M6 thread at
the handlebar end

Type M6
Comprehensive universal adapter set for all handlebars (e.g. Superbike handlebars,
many original handlebars) with and without M6 thread at the handlebar end

Simply Stylish

This good looking handlebar end weight ensures there are no vibrations during your ride. Unpleasant movement and vibrations are reduced dramatically, lowering the risk of numbness. In addition to improved ride comfort these handlebar end weights also look stylish. All parts are made from rust-free stainless steel and have excellent material properties. In addition to the classic style, they are also available in the design of the well known LS 1000 from Kellermann. The corresponding mounting solution can be found in the descriptions on the left.

- ■ *rust-free stainless steel*
- ■ *Multiadapter M6*
- ■ *model-specific*

Style	ø Handlebar end	Length	Weight
LS Classic M6, Typ A, S, Y, S / H	ca 30 mm	ca 48 mm	ca 230g
LS Classic M8, Typ K	ca 30 mm	ca 48 mm	ca 200g
LS 1000 M6, Typ A, S, Y, S / H	ca 30 mm	ca 48 mm	ca 250g
LS 1000 M8, Typ K	ca 30 mm	ca 48 mm	ca 190g

LS Classic Multiadapter M6

Item		Style	Part No.	Unit
LS Classic M6	1	Stainles steel honed	131.000	pair
	2	Stainless steel black	131.010	pair

LS Classic model-specific

Item		Style	Part No.	Unit
Typ A	1	Stainles steel honed	133.100	pair
	2	Stainless steel black	133.150	pair
Typ S	1	Stainles steel honed	133.200	pair
	2	Stainless steel black	133.250	pair
Typ K		Stainles steel honed	133.300	pair
		Stainless steel black	133.350	pair
Typ Y	1	Stainles steel honed	133.400	pair
	2	Stainless steel black	133.450	pair
Typ S / H	1	Stainles steel honed	133.500	pair
	2	Stainless steel black	133.550	pair

LS 1000 model-specific

| Item		Style	Part No.	Unit
Typ A	3	Stainles steel honed	137.100	pair
	4	Stainless steel black	137.150	pair
Typ S	3	Stainles steel honed	137.200	pair
	4	Stainless steel black	137.250	pair
Typ K		Stainles steel honed	137.300	pair
		Stainless steel black	137.350	pair
Typ Y	3	Stainles steel honed	137.400	pair
	4	Stainless steel black	137.450	pair
Typ S / H	3	Stainles steel honed	137.500	pair
	4	Stainless steel black	137.550	pair
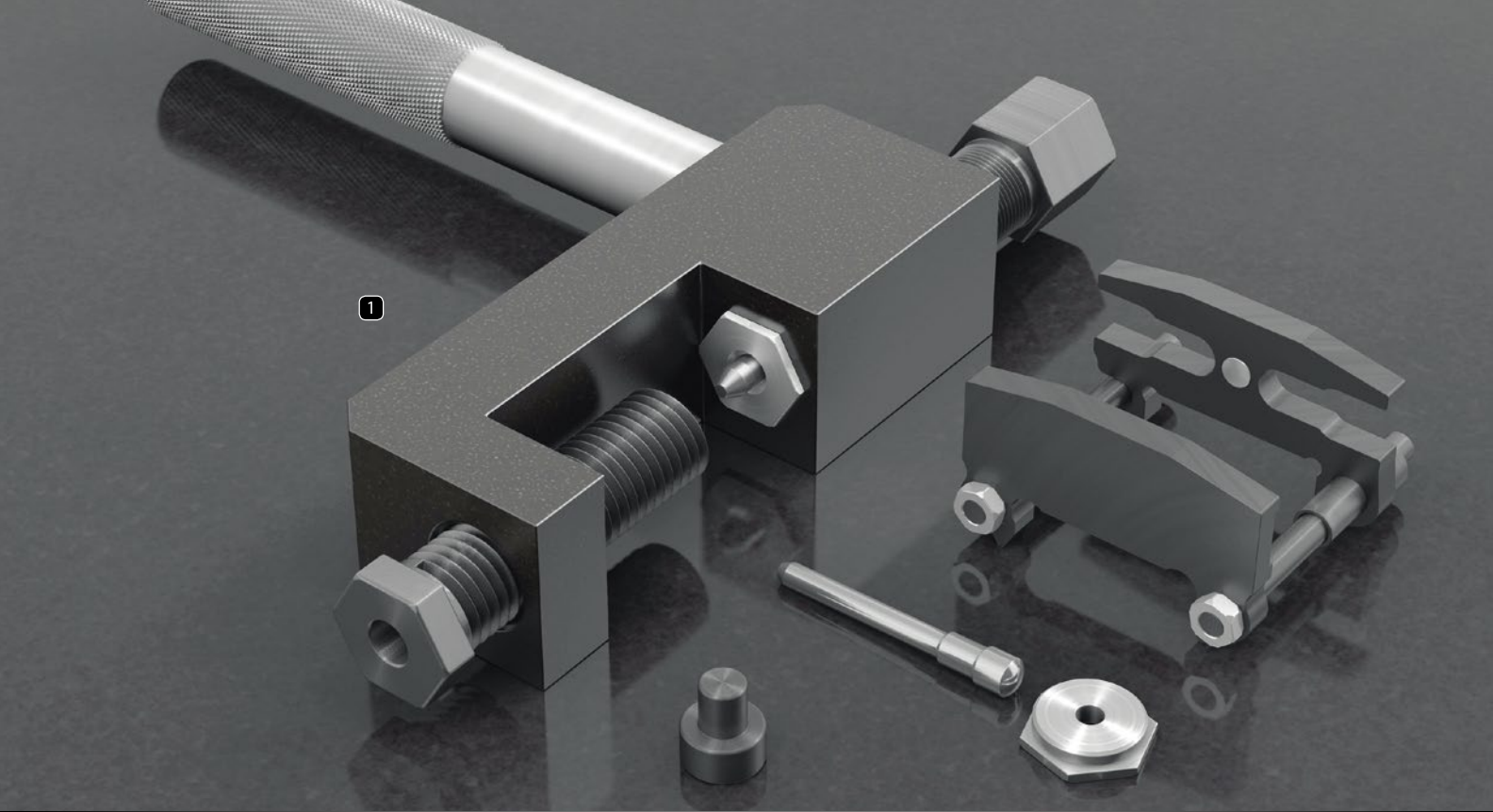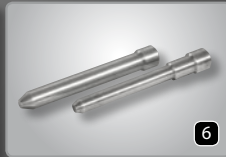
Chain Tool KTW 2.5

The Kellermann chain tool KTW 2.5 is the enhanced version of the KTW 2.0.

It allows an easy removal of the worn chain and a precise assembly of the new chain with hollow rivets, so that the swingarm can stay installed. The tool is designed for chains of all brands (such as DID, Regina, RK, etc.). The tool now comes with two arbors for different diameters. The pre-installed arbor is now stronger and works for 5xx und 6xx chains. The additional arbor especially works for 4xx chains. For use in addition only a 19mm ring or socket wrench is required.

By using the extension set Art.-Nr. 130.250 this tool is suitable for full rivet locks.

The chain tool contains a patented, magnetic positioning tool for the assembly of the connecting link, which ensures simple and absolutely precise mounting of the side plate of the connecting link. The positioning unit consists of two magnetic plates that are coupled together via a guide. This design allows a precise and comfortable positioning of the parts of the connecting link. The plates stick magnetically to the connecting link, so you have the hands free to work.

Crucial for the assembly of the connecting link is, that you don t insert the side plate too far onto the pins. To prevent this reliably, the plates act as a limit stop and extend to the adjacent chain links. You can see with naked eye through the cut-outs in the push plate, if the side plate of the connecting link is in the right position and you have to stop pushing it.

So connecting link assembly errors are largely excluded and the assembly of the connecting link is neither time consuming nor nerve wrecking any more.

Rivet head molder Extension set for full rivet locks Part No. 130.250

This chain tool is capable to handle full rivet locks by using our extension set.

Convenient Handling: Just replace the guide of the pin punch against the attached rivet head molder guide. Push the rivet head into the guideway by what its usable. The force is transmitted by the pin punch to the rivet head.

- ■ *Chain Breaking*
- ■ *Connecting link assembly*
- ■ *Rivetting the bolts*

Watch our KTW 2.5 video at www.kellermann-online.com:

http://www.kellermann-online.com/en/produkte/detail/130.150

Breaking the chain

Positioning of the side plate of the connecting link

Precise insertion of the side plate

Rivetting the bolts

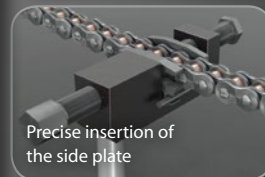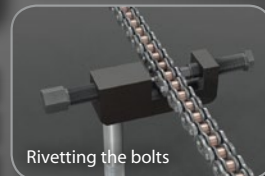| Item	Part No.	Unit
Chain tool KTW 2.5	1 130.150	set
Magnetic positioning device*	2 130.210	one
Replacement pin punch for KTW 2.0	3 130.220	one
Bolt stop *	4 130.225	one
Rivet head molder set for full rivet locks*	5 130.250	set
Replacement set for KTW 2.5 - pin punch 4xx, pin punch 5xx and 6xx	6 130.240	set
Upgrade set KTW 2.0 → KTW 2.5 (pin punch 4xx, pin punch 5xx, 6xx, fence, fixing screw, pressure screw)	7 130.260	set

*applicable for KTW 2.0 and KTW 2.5

3 YEARS WARRANTY

Made in Germany

Chain tool KTW 2.5

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Functions micro 1000 Series

	micro 1000 Extreme 160....	micro 1000 PL 141....	micro 1000 DF 140....	micro 1000 DF Dark 143....	micro 1000 Dark 142....	micro 1000 LED white 127....	micro 1000 LED 125....	micro 1000 Halogen 123....
Version	indicator	indicator + position light	indicator + rear/brake light	indicator + rear/brake light	indicator	indicator	indicator	indicator
Indicator	✓	✓	✓	✓	✓	✓	✓	✓
Rear/brake light			✓	✓				
Position light		✓						
ECE-tested for front	all vehicles	motorcycles			motorcycles	motorcycles	motorcycles	
ECE-tested for rear	all vehicles		motorcycles	motorcycles	motorcycles	motorcycles	motorcycles	motorcycles
If installed properly no MOT test necessary	✓	✓	✓	✓	✓	✓	✓	✓
Halogen technique								✓
Kellermann HighPower LED Technology	✓	✓	✓	✓	✓	✓	✓	
Power intake in Watt approx.	3	1/1	1/1	1,3/1,3	3	2	2	6
Glass colour	clear	clear	clear	strongly tinted	strongly tinted	clear	amber	amber
Light colour	yellow	yellow / white	yellow / red	yellow / red	yellow	yellow	yellow	yellow
Length (without thread) Height/depth (mm) approx.	72 / 18 / 17	72 / 18 / 17	72 / 18 / 17	72 / 18 / 17	72 / 18 / 17	72 / 18 / 17	72 / 18 / 17	72 / 18 / 17
Flexible rubber adapter	M8 x 20	M8 x 20	M8 x 20	M8 x 20	M8 x 20	M8 x 20	M8 x 20	M8 x 20
Almost unlimited life due to IC operated LED operation: Long Life Protection Guard®	✓	✓	✓	✓	✓	✓	✓	
More safety due to brightness and direct response of LED	✓	✓	✓	✓	✓	✓	✓	
Reverse battery protection	✓	✓	✓	✓	✓	✓	✓	
Suitable for DC applications	12V	12V/6V	12V	12V	12V	12V/6V	12V/6V	12V
Comprehensive spare parts/ accessories programme	✓	✓	✓	✓	✓	✓	✓	✓
Required accessories at 21 W original performance	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)

Functions micro Rhombus Series

	micro Rhombus Extreme 166....	micro Rhombus PL 147....	micro Rhombus DF 146....	micro Rhombus DF Dark 149....	micro Rhombus Dark 148....	micro Rhombus 126....
Version	indicator	indicator + position light	indicator + rear/brake light	indicator + rear/brake light	indicator	indicator
Indicator	✓	✓	✓	✓	✓	✓
Rear/brake light			✓	✓		
Position light		✓				
ECE-tested for front	all vehicles	motorcycles			motorcycles	motorcycles
ECE-tested for rear	all vehicles		motorcycles	motorcycles	motorcycles	motorcycles
If installed properly no MOT test necessary	✓	✓	✓	✓	✓	✓
Kellermann HighPower LED Technology	✓	✓	✓	✓	✓	✓
Power intake in Watt approx.	3	1/1	1/1	1,3/1,3	3	1,5
Glass colour	clear	clear	clear	strongly tinted	strongly tinted	clear
Light colour	yellow	yellow / white	yellow / red	yellow / red	yellow	yellow
Length (without thread) Height/depth (mm) approx.	79 / 23 / 21	79 / 23 / 21	79 / 23 / 21	79 / 23 / 21	79 / 23 / 21	79 / 23 / 21
Flexible rubber adapter	M8 x 20	M8 x 20	M8 x 20	M8 x 20	M8 x 20	M8 x 20
Almost unlimited life due to IC operated LED operation: Long Life Protection Guard®	✓	✓	✓	✓	✓	✓
More safety due to brightness and direct response of LED	✓	✓	✓	✓	✓	✓
Reverse battery protection	✓	✓	✓	✓	✓	✓
Suitable for DC applications	12V	12V/6V	12V	12V	12V	12V/6V
Comprehensive spare parts/ accessories programme	✓	✓	✓	✓	✓	✓
Required accessories at 21 W original performance	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)

Functions Bullet 1000 Series

	Bullet 1000 Extreme 182....	Bullet 1000 PL 181....	Bullet 1000 DF 180....
Version	indicator	indicator + position light	indicator + rear/brake light
Indicator	✓	✓	✓
Rear/brake light			✓
Position light		✓	
ECE-tested for front	all vehicles	motorcycles	
ECE-tested for rear	all vehicles		motorcycles
If installed properly no MOT test necessary	✓	✓	✓
Kellermann HighPower LED Technology	✓	✓	✓
Power intake in Watt approx.	2	1 / 1	1 / 1
Glass colour	clear	clear	clear
Light colour	yellow	yellow / yellow	yellow / red
Length (without thread) Height/depth (mm) approx.	50 / 39	50 / 39	50 / 39
Mounting	M8 x 20	M8 x 20	M8 x 20
Almost unlimited life span due to IC operated LED system: Long Life Protection Guard®	✓	✓	✓
More safety due to brightness and direct response of LED	✓	✓	✓
Reverse battery protection	✓	✓	✓
Suitable for DC applications	12V	12V	12V
Comprehensive spare parts/ accessories programme	✓	✓	✓
Required accessories at 21 W original performance	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)

Functions BL 1000 Series

	BL 2000 110....	BL 1000 PL 121....	BL 1000 LED 120....	BL 1000 Dark 122....	BL 1000 white 128....	BL 1000 yellow 124....
Version	handlebar end indicator	handlebar end indicator + position light	handlebar end indicator	handlebar end indicator	handlebar end indicator	handlebar end indicator
Indicator	✓	✓	✓	✓	✓	✓
Position light		✓				
ECE-tested for front	motorcycles	motorcycles	motorcycles	motorcycles	motorcycles	motorcycles
If installed properly no MOT test necessary	✓	✓	✓	✓	✓	✓
Used lenses	1	2	2	2	2	2
Halogen technology					✓	✓
Kellermann HighPower LED Technology	✓	✓	✓	✓		
Power intake in Watt approx.	4	1 / 1	3	4	21	21
Glass colour	strongly tinted / clear	clear	clear	strongly tinted	clear with xenon-blue reflection	amber
Light colour	yellow	yellow / white	yellow	yellow	yellow	yellow
Length (without thread)/height/ depth (mm) approx.	24 / 29 / 29	59 / 32,5 / 30	59 / 32,5 / 30	59 / 32,5 / 30	65 / 36 / 30	65 / 36 / 30
Mounting	vibration damping clamp	vibration damping clamp	vibration damping clamp	vibration damping clamp	vibration damping clamp	vibration damping clamp
Almost unlimited life span due to IC operated LED system: Long Life Protection Guard®	✓	✓	✓	✓		
More safety due to brightness and direct response of LED	✓	✓	✓	✓		
Reverse battery protection	✓	✓	✓	✓		
Suitable for DC applications	12V	12V	12V	12V	12V	12V
Comprehensive spare parts/ accessories programme	✓	✓	✓	✓	✓	✓
Required accessories at 21 W original performance	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)	Load-independent relay (pages 50-53) or resistors (page 49) or adaptation device set (page 49)

Functions Flasher Relays

	Flasher Relay R 1 123.965	Flasher Relay R 2 123.970	Flasher Relay R 3 123.975	Flasher Relay CR 4 123.980
Category	for the pros	universal problem solver	a smart module	all-in-one solution
ECE-tested	✓	✓	✓	✓
No MOT test necessary	✓	✓	✓	✓
Suitable for vehicles with indicator switch	✓	✓	✓***	✓
Suitable for vehicles with indicator buttons			✓	
Indicator switching capacity	0.5 - 50 watt	0.5 - 85 watt	0.5-85 watt (max. 42.5 watt per side)	0.5-85 watt (max. 42.5 watt per side)
Horn switching capacity			max. 50 watt	max. 50 watt
Load-independent smooth flashing frequency*	steady flash rate	steady flash rate	steady flash rate	steady flash rate
No Hazard warning effect when changed to LED indicators	✓	✓**	✓	✓
Original hazard flasher must be deactivated		O (sporadic)	✓	✓
Convenience functions			✓	✓
Indicator reset memory			✓	✓
Hazard warning flasher			✓	✓
Alarm unit			✓	✓
Adaptive break light				✓
Starter assistant				✓
Measurements: length/width/height (mm) approx.	22 / 12 / 6	34 / 22 / 12	95 / 22 / 12	128 / 22 / 12
Installation hints	simple installation in feed to the indicator switch or swap the original 2-3 pole flasher relay	swap the original 2-3 pole flasher relay	swap the original flasher relay or indicator module	swap the original 2-3 pole flasher relay
Direct connection possibility to control light indicator	✓			
High quality metal housing		✓	✓	✓
Suitable for DC applications	12V / 6V	12V	12V	12V

* Legal flashing frequency: 60 times – 120 times per minute
** In certain cases the hazard warning flasher facility must be deactivated.
***for vehicles with an indicator switch the installation of the Flasher Relay CR 4 is recommended

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Installation Instructions ECE-Norm According To Guideline 93/92/EWG
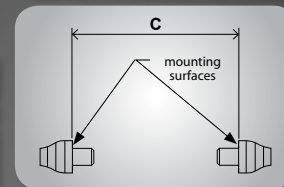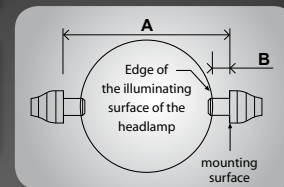
Number of used indicators	4 indicators per motorcycle, 2 units at front, 2 units at rear (also with BL 1000 indicators)

			Measurements	
Specified min. distance	front		between both light emission surfaces of the indicators	240 mm
			between the light emission surface of the middle headlamp and the light emission surface of the indicator according to ECE 50 (all except Extreme indicator)	75 mm
			between the light emission surface of the middle headlamp and the light emission surface of the indicator according to ECE 6 (Extreme indicator)	20 mm
Specified min. distance	rear		between the two light emission surfaces of the indicator	180 mm
			vertically to the ground	350 mm
			from the last point of the motorcycle to the front	300 mm

From this the following min. distances for Kellermann indicators are:

micro 1000 PL	front	A	distance of the mounting surfaces to each other	142 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	21 mm
micro 1000 DF & DF Dark	rear	C	distance of the mounting surfaces to each other	82 mm
micro 1000 Extreme	front	A	distance of the mounting surfaces to each other	169 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	0 mm
	rear	C	distance of the mounting surfaces to each other	109 mm
micro 1000 Dark	front	A	distance of the mounting surfaces to each other	169 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	35 mm
	rear	C	distance of the mounting surfaces to each other	109 mm
micro 1000 LED & LED white	front	A	distance of the mounting surfaces to each other	155 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	28 mm
	rear	C	distance of the mounting surfaces to each other	95 mm
micro 1000 Halogen	hinten	C	distance of the mounting surfaces to each other	126 mm
micro Rhombus PL	rear	A	distance of the mounting surfaces to each other	146 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	23 mm
micro Rhombus DF & DF Dark	rear	C	distance of the mounting surfaces to each other	86 mm
micro Rhombus Extreme	front	A	distance of the mounting surfaces to each other	178 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	0 mm
	rear	C	distance of the mounting surfaces to each other	118 mm
micro Rhombus Dark	front	A	distance of the mounting surfaces to each other	178 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	39 mm
	rear	C	distance of the mounting surfaces to each other	118 mm
micro Rhombus	front	A	distance of the mounting surfaces to each other	164 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	32 mm
	rear	C	distance of the mounting surfaces to each other	104 mm
Bullet 1000 Extreme	front	A	distance of the mounting surfaces to each other	204 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	3 mm
	rear	C	distance of the mounting surfaces to each other	146 mm
Bullet 1000 PL	front	A	distance of the mounting surfaces to each other	204 mm
		B	between the light emission surface of the middle headlamp and the mounting surface of the indicator	58 mm
Bullet 1000 DF	rear	C	distance of the mounting surfaces to each other	138 mm

A — Edge of the illuminating surface of the headlamp

B — mounting surface

C — mounting surfaces