



BRIEF INFORMATION



Black Magic Tough Pro

- For on and off-road use: available as ECE R149 high beam headlamp or for off-road use with floodlight
- Signature position light: white (ECE R148) for road traffic, amber for off-road use – with multiple modes
- Smart features: welcome / goodbye light, optional warning flash function
- Tough-style design: 360° Black Look, vibration-resistant design, optional heated lens, EMC-tested

PRODUCT FEATURES



Optional warning flash function



Optionally with heated lens
Welcome and goodbye light functions



Slim position light in white and amber or red with multiple modes

The HELLA Black Magic Tough Pro offers maximum flexibility: the position light is available in white in accordance with ECE R148 for road traffic or in amber for off-road use.

Available in 9" – 39" length and also in the Single or Double Row version.

Various shapes such as a striking "O", a powerful "U" or a dynamic, inverted "U" blend in to suit each individual style. The visible light design on the outer frame of the light bar ensures an unmistakable presence on any road or terrain.

*White versions

TECHNICAL DETAILS

SINGLE ROW LIGHT BAR BLACK MAGIC TOUGH PRO



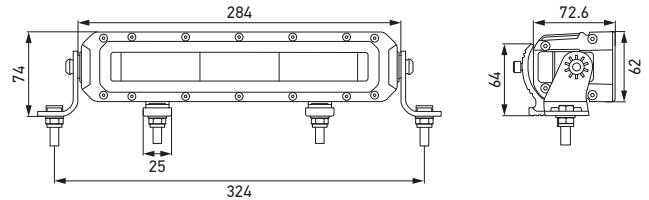
Technical data

Version	11" Single Row Lightbar Black Magic Tough Pro	22" Single Row Lightbar Black Magic Tough Pro
Part number	1FG 358 550-201 ^[1] 1GG 358 550-221 ^[2]	1FJ 358 550-211 ^[3] 1GJ 358 550-231 ^[4]
Operating voltage range	Multi-voltage (10 – 30 V)	
Rated voltage	12 V and 24 V	
Power consumption	42 W	96 W ^[3] 106 W ^[4]
Light output (effective)	High beam headlamp (spotlight)	
ECE mode:	1,031 lm ^[1]	3,883 lm ^[3]
High-boost mode:	1,920 lm ^[1]	2,200 lm ^[3]
Light output (effective)	Floodlight (off-road)	
	1,651 lm	6,000 lm
Ref. no.	20 ^[1]	37.5 ^[3]
Light function	High beam headlamp ^[1,3] (spotlight) or floodlight ^[2,4] (off-road), position light (white and amber or red), high-boost mode ^[1,3] , welcome and goodbye light	
Number of LEDs	57	117 ^[3] 159 ^[4]
Colour temperature	5,700 K	
Material	Housing: aluminium with electrophoresis coating	
Weight	1,950 g	3,050 g
Ambient temperature	- 30 °C to + 65 °C	
Storage temperature	- 40 °C to + 85 °C	
Protection class	IP 68, IP 69K	
Position light	White and amber ^[1] Red and amber ^[2]	White and amber ^[3] Red and amber ^[4]
Approved	ECE R10, Position light white and red ECE R148, High beam: ECE R149, Warning flash function: ECE R65	
EMC	Warning flash function ^[4] ; CISPR 25 Class 3	
Mounting	Side and rear mounting brackets	
Connection	ATP connector with 1,500 mm cable, plus optional 500 mm cable with open ends	

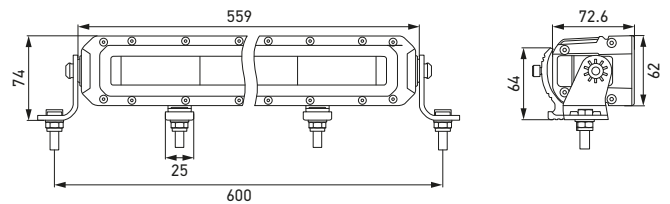
The AMBER position light does not have ECE approval: use may be limited to off-road areas away from public roads and in accordance with local regulations (see mounting instructions). | Before connecting the warning flash function, please check whether you belong to one of the groups who are authorised to use hazard warning flashers in the mounted direction in accordance with local legislation. | The high-boost mode is not authorised for use on public roads.

Dimensional sketch

11" Single Row Lightbar Black Magic Tough Pro



22" Single Row Lightbar Black Magic Tough Pro



With rear and side fastening bracket

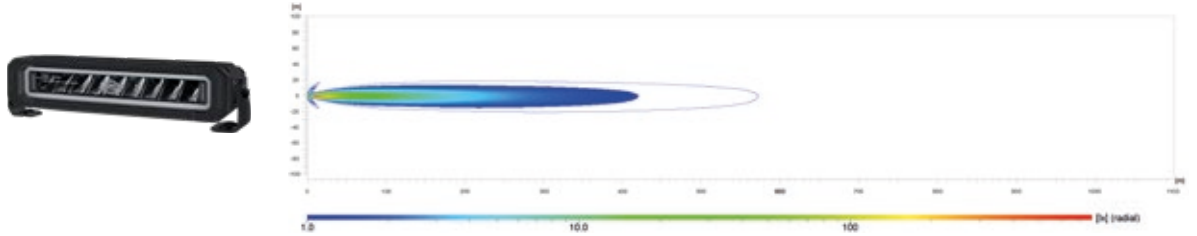
LIGHT DISTRIBUTION

SINGLE ROW LIGHTBAR BLACK MAGIC TOUGH PRO

The light distribution patterns each show 2 lamps in operation. Scale: to 1,100 m.

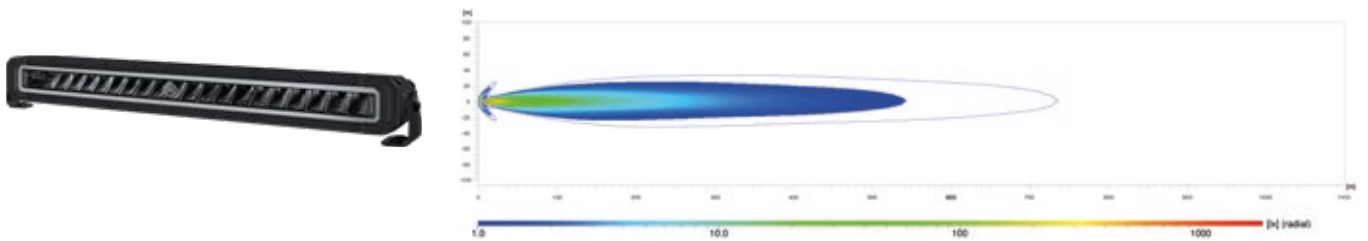
11" Single Row Lightbar Black Magic Tough Pro | 1FG 358 550-201

Reference number 20 | ECE + high-boost mode | spotlight



22" Single Row Lightbar Black Magic Tough Pro | 1FJ 358 550-211

Reference number 37.5 | ECE + high-boost mode | spotlight

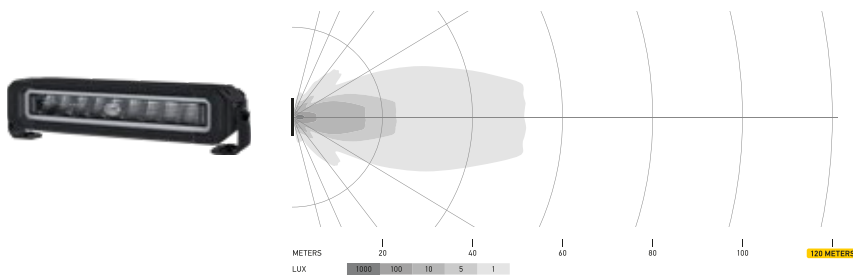


ONLY OFF-ROAD

The light distribution patterns show 1 lamp in operation. Scale to 120 m.

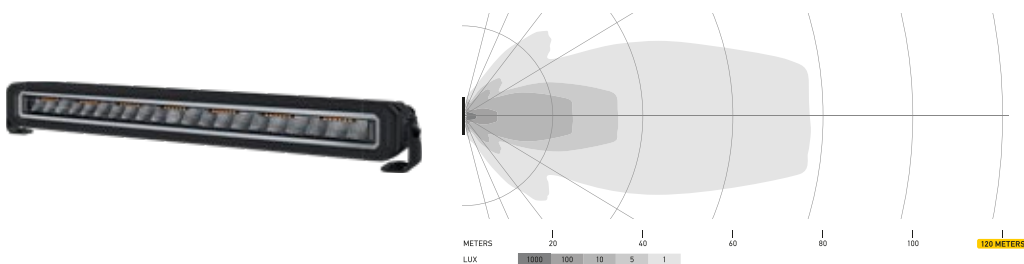
11" Single Row Lightbar Black Magic Tough Pro | 1GG 358 550-221

Floodlight



22" Single Row Lightbar Black Magic Tough Pro | 1GJ 358 550-231

Floodlight



TECHNICAL DETAILS

DOUBLE ROW LIGHTBAR BLACK MAGIC TOUGH PRO



Technical data						
Version	9" Double Row Lightbar Black Magic Tough Pro	11" Double Row Lightbar Black Magic Tough Pro	15" Double Row Lightbar Black Magic Tough Pro	21" Double Row Lightbar Black Magic Tough Pro	27" Double Row Lightbar Black Magic Tough Pro	39" Double Row Lightbar Black Magic Tough Pro
Part number	1FE 358 550-001 ⁽¹⁾ 1FE 358 550-011 ⁽²⁾ 1FE 358 550-021 ⁽³⁾	1FG 358 550-031 ⁽¹⁾ 1FG 358 550-041 ⁽²⁾ 1GG 358 550-151 ⁽³⁾	1FJ 358 550-051/-061 ⁽¹⁾ 1FJ 358 550-071 ⁽²⁾ 1FJ 358 550-301 ⁽³⁾ 1GJ 358 550-321 ⁽⁴⁾	1FJ 358 550-081/-091 ⁽¹⁾ 1FJ 358 550-101 ⁽²⁾ 1FJ 358 550-311 ⁽³⁾	1FJ 358 550-111 ⁽¹⁾ 1FJ 358 550-121 ⁽²⁾	1FJ 358 550-131 ⁽¹⁾ 1FJ 358 550-141 ⁽²⁾
Operating voltage range	Multi-voltage (10 – 30 V)					
Rated voltage	12 V and 24 V					
Power consumption	72 W ^(1,2) 99 W ⁽³⁾	90 W ⁽¹⁾ 126 W ⁽²⁾ 108 W ⁽³⁾	132 W ⁽¹⁾ 186 W ⁽²⁾ 209 W ⁽³⁾ 156 W ⁽⁴⁾	192 W ⁽¹⁾ 273 W ⁽²⁾ 296 W ⁽³⁾	252 W ⁽¹⁾ 360 W ⁽²⁾	372 W ⁽¹⁾ 534 W ⁽²⁾
Light output (effective) ECE mode:	1,435 lm	2,044 lm ^(1,2)	High beam headlamp (spotlight) 2,282 lm ⁽¹⁾ 2,100 lm ⁽³⁾		5,545 lm	6,100 lm
High-boost mode:	2,477 lm	3,324 lm ^(1,2)	4,982 lm ^(1,2) 4,800 lm ⁽³⁾		8,930 lm	12,410 lm
Light output (effective)	–	3,018 lm ⁽³⁾	Floodlight (off-road) 4,233 lm ⁽⁴⁾		–	–
Ref. no.	25	30 ^(1,2)	40	45	45	50
Light function	High beam headlamp (spotlight) or floodlight (off-road), position light (white and amber or red and amber), high-boost modus, welcome and goodbye light (without high-boost: 1GG 358 550-151 and 1GJ 358 550-321)					
Number of LEDs	48 ^(1,2) 66 ⁽³⁾	58 ⁽¹⁾ 82 ⁽²⁾ 88 ⁽³⁾	84 ^(1,2) 120 ⁽³⁾	120 ^(1,2) 174 ^(3,4)	156 ⁽¹⁾ 228 ⁽²⁾	228 ⁽¹⁾ 336 ⁽²⁾
Colour temperature	5,700 – 6,500 K					
Material	Housing: aluminium with electrophoresis coating White version: passivation of the housing					
Weight	1,800 g	2,300 g	2,800 g	3,800 g	4,800 g	7,000 g
Ambient temperature	– 30 °C to + 65 °C					
Storage temperature	– 40 °C to + 85 °C					
Protection class	IP 68, IP 69K					
Position light	White and amber	White and amber ^(1,2) Red and amber ⁽³⁾	White and amber ^(1,2,3) Red and amber ⁽⁴⁾	White and amber	White and amber	White and amber
Approved	ECE R10, position light, white and red: ECE R148, high beam: ECE R149, warning flash function: ECE R65					
EMC	Warning flash function: CISPR 25 Class 3					
Mounting	Side and rear mounting brackets					
Connection	ATP connector with 1,500 mm cable, plus optional 500 mm cable with open ends					

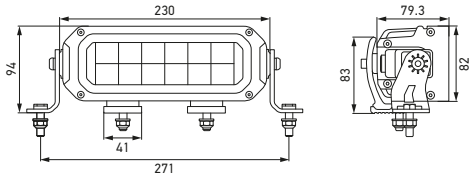
The AMBER position light does not have ECE approval: use may be limited to off-road areas away from public roads and in accordance with local regulations (see mounting instructions). | Before connecting the warning flash function, please check whether you belong to one of the groups who are authorised to use hazard warning flashers in the mounted direction in accordance with local legislation. | The high-boost mode is not authorised for use on public roads.

TECHNICAL DETAILS

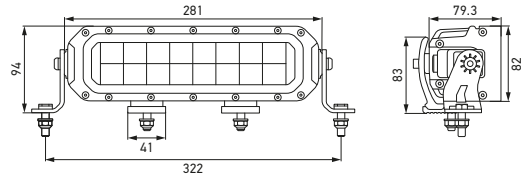
DOUBLE ROW LIGHTBAR BLACK MAGIC TOUGH PRO

Dimensional sketch

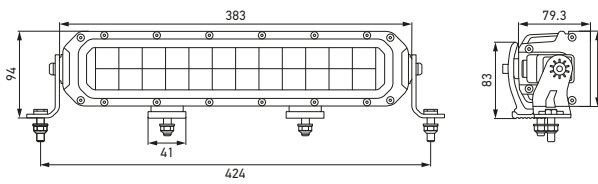
9" Double Row Lightbar Black Magic Tough Pro



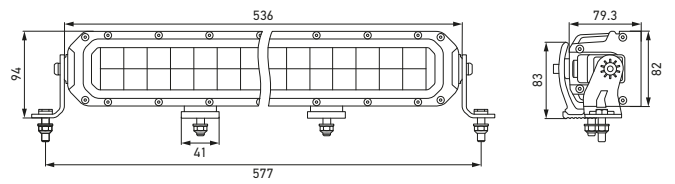
11" Double Row Lightbar Black Magic Tough Pro



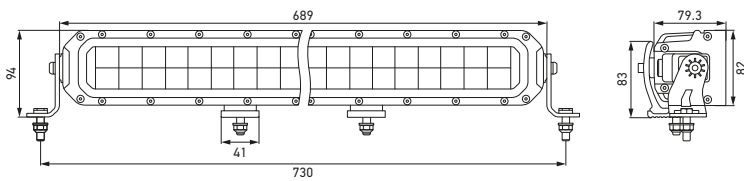
15" Double Row Lightbar Black Magic Tough Pro



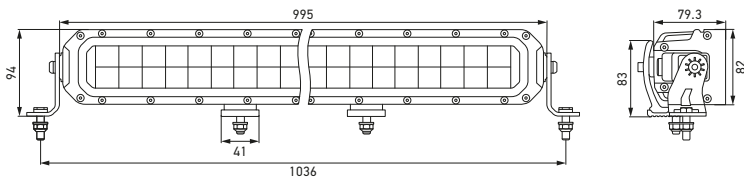
21" Double Row Lightbar Black Magic Tough Pro



27" Double Row Lightbar Black Magic Tough Pro



39" Double Row Lightbar Black Magic Tough Pro



With rear and side fastening bracket

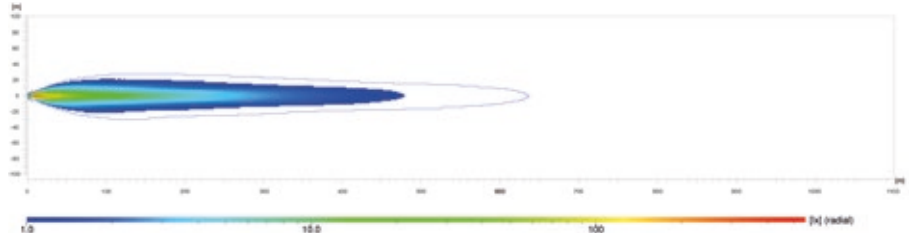
LIGHT DISTRIBUTION

DOUBLE ROW LIGHTBAR BLACK MAGIC TOUGH PRO

The light distribution patterns each show 2 lamps in operation. Scale to 1,100 m.

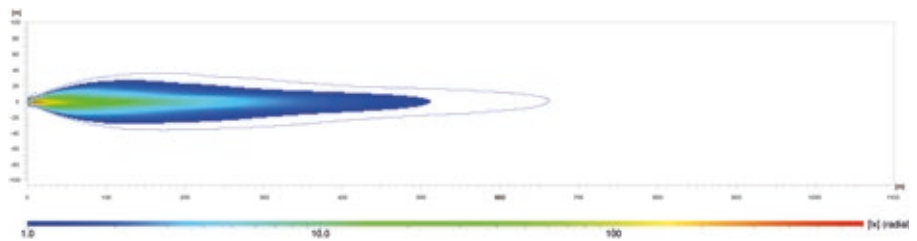
9" Double Row Lightbar Black Magic Tough Pro | 1FE 358 550-001/-011/-021

Reference number 25 | ECE + high-boost mode | spotlight



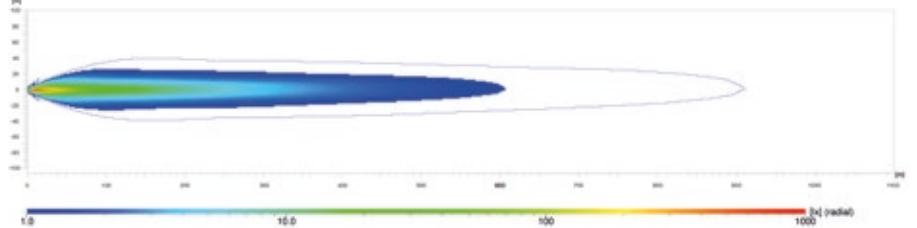
11" Double Row Lightbar Black Magic Tough Pro | 1FG 358 550-031/-041

Reference number 30 | ECE + high-boost mode | spotlight



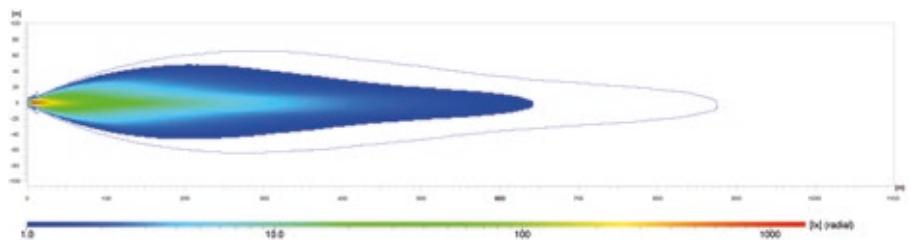
15" Double Row Lightbar Black Magic Tough Pro | 1FJ 358 550-051/-061/-071/-301

Reference number 40 | ECE + high-boost mode | spotlight



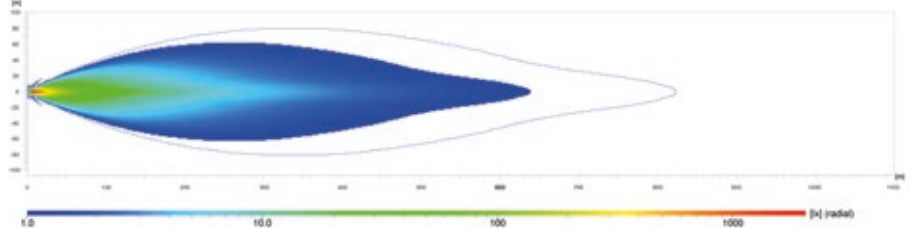
21" Double Row Lightbar Black Magic Tough Pro | 1FJ 358 550-081/-091/-101/-311

Reference number 45 | ECE + high-boost mode | spotlight



27" Double Row Lightbar Black Magic Tough Pro | 1FJ 358 550-111/-121

Reference number 45 | ECE + high-boost mode | spotlight

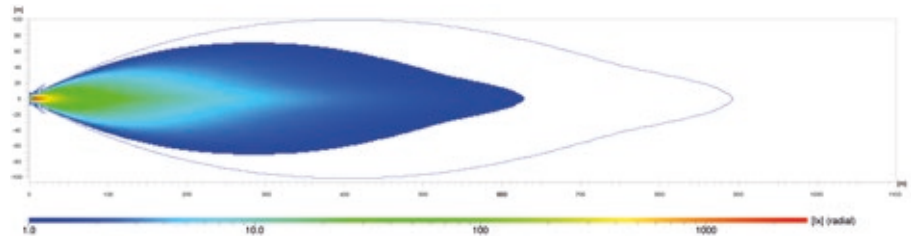


LIGHT DISTRIBUTION

DOUBLE ROW LIGHTBAR BLACK MAGIC TOUGH PRO

The light distribution patterns each show 2 lamps in operation. Scale to 1,100 m.

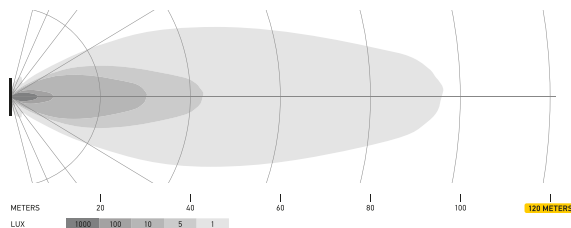
39" Double Row Lightbar Black Magic Tough Pro | 1FJ 358 550-131 / -141
 Reference number 50 | ECE + high-boost mode | spotlight



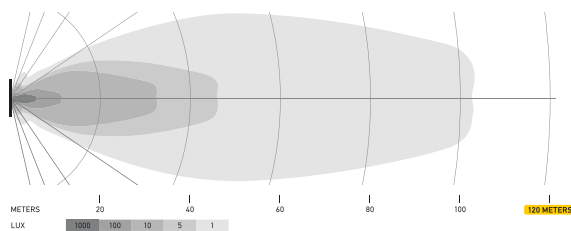
ONLY OFF-ROAD

The light distribution patterns show 1 lamp in operation. Scale to 120 m.
















11" Double Row Lightbar Black Magic Tough Pro | 1GG 358 550-151
 Floodlight



15" Double Row Lightbar Black Magic Tough Pro | 1GJ 358 550-321
 Floodlight











PROGRAM OVERVIEW

Product Image	Scope of Delivery	Light Function	Part Number
11" Single Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2x side brackets, 2x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FG 358 550-201
		Floodlight, position light amber and red	1GG 358 550-221 ONLY OFF-ROAD
22" Single Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2x side brackets, 2x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FJ 358 550-211
		Floodlight, warning flash function, position light amber and red	1GJ 358 550-231 ONLY OFF-ROAD
9" Double Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2x side brackets, 2x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FE 358 550-001
		1FE 358 550-011*	
		Spotlight, warning flash function, position light white and amber	1FE 358 550-021
11" Double Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2x side brackets, 2x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FG 358 550-031
		Spotlight, warning flash function, position light white and amber	1FG 358 550-041
		Floodlight, warning flash function, position light amber and red	1GG 358 550-151 ONLY OFF-ROAD
15" Double Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2x side brackets, 2x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FJ 358 550-051
		1FJ 358 550-061*	
		Spotlight, warning flash function, position light white and amber	1FJ 358 550-071
		Spotlight, warning flash function, heated cover lens, position light white and amber	1FJ 358 550-301
		Floodlight, warning flash function, heated cover lens, position light amber and red	1GJ 358 550-321 ONLY OFF-ROAD

* White housing

PROGRAM OVERVIEW

Product Image	Scope of Delivery	Light Function	Part Number
21" Double Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2 x side brackets, 2 x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FJ 358 550-081
		Spotlight, warning flash function, position light white and amber	1FJ 358 550-091*
		Spotlight, warning flash function, position light white and amber	1FJ 358 550-101
		Spotlight, warning flash function, heated cover lens, position light white and amber	1FJ 358 550-311
27" Double Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2 x side brackets, 4 x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FJ 358 550-111
		Spotlight, warning flash function, position light white and amber	1FJ 358 550-121
39" Double Row Lightbar Black Magic Tough Pro			
	1 x light bar with 1,500 mm cable, 2 x side brackets, 4 x rear brackets, fastening material, 1 x 500 mm cable with open ends	Spotlight, position light white and amber	1FJ 358 550-131
		Spotlight, warning flash function, position light white and amber	1FJ 358 550-141

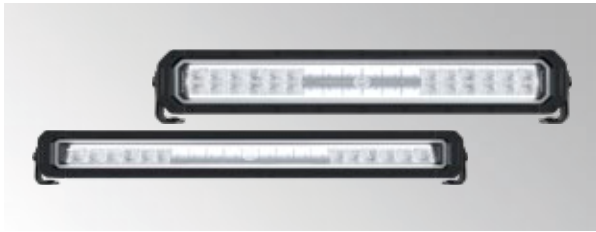
* White housing

APPLICATION EXAMPLES

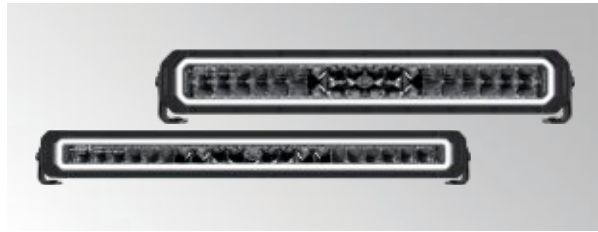


LIGHT FUNCTIONS

For road traffic (ECE R149, ECE R148 and ECE R65)



High beam headlamp with spotlight



Position light (white)

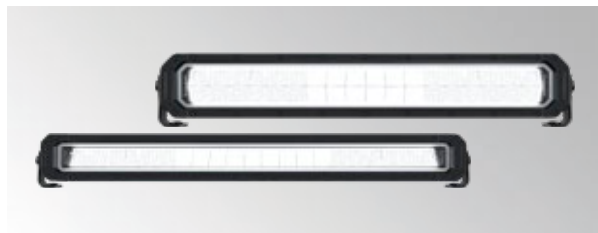


Warning flash function

Off-road only



Floodlight



High-boost mode



Position light (amber)



Position light (red)

Experience the light functions of all kinds of different product variants direct in the functions video.

11" Single Row Lightbar Black Magic Tough Pro



1FG 358 550-201



1GG 358 550-221

22" Single Row Lightbar Black Magic Tough Pro



1GJ 358 550-231



15" Double Row Lightbar Black Magic Tough Pro



1FJ 358 550-051



1FJ 358 550-071

