SD50 Smart Dot 50 Basic

- Exceptional brightness, vivid color output, and energy efficiency
- Excellent homogeneous and flexible signaling with up to 3 colors
- Up to 10 animations: steady, flash, beat, multiflash, color-alternation, high intensity beat and ECO modes
- Active Thermal Control & Active Inrush Current Control
- Nominal voltage 18-30 V DC









reddot winner 2026

TECHNICAL DATA

Housing	UV-stabilized Polycarbonate (black, white) or stainless steel (AISI 303)
Lens	UV-stabilized Polycarbonate, opal white
Type of mounting	M22 mounting with 5-pin plug M12 connector
Nominal power (24V)	up to 1,45 W
Inrush current	0,5 A
Leakage current resistance	1 mA
Power up time	10 ms
Beacon type	Multifunction beacon
Light source	LED
Duty cycle	0 ... 100 %
Service life	60.000 h

Operating temperature	-40 °C / +70 °C
Degree of protection	IP66 / IP67 / IP69 / IP69K / IP6K9K & UL Type 4/4X
Impact resistance	IK08
Shock vibration resistance	- IEC 60068-2-6 (Vibration: 10 Hz to 55 Hz, 1.0 mm amplitude, 5 minutes sweep, 30 minutes dwell) - IEC 60068-2-27 (Shock: 30G 11 ms duration, half sine wave) - MIL-STD-202F, Method 201A (Vibration: 10 Hz to 60 Hz maximum, 0.06 inch (1.52 mm) double amplitude, 10G maximum acceleration) - IEC 60947-5-2 (Shock: 30G 11 ms duration, half sine wave)
Weight	48 g (black/white), 98 g (stainless steel)

IP66 IP67 IP69 IP69K IP6K9K IK08 +70 °C -40 °C CE cULus

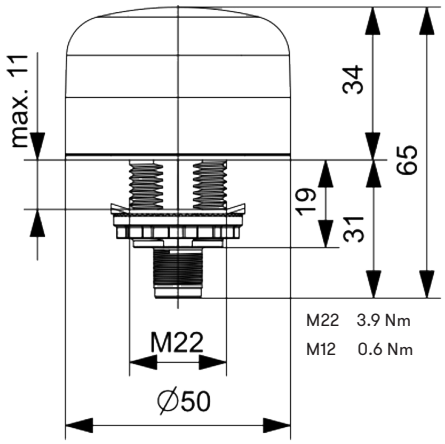
PRODUCT COMPARISON SMART DOT 50

Feature Lines	Basic	Standard	IO-Link
Voltage	18-30 V DC	10-30 V DC	18-30 V DC
Colors	1-3 colors Green/Yellow/Red/White/Blue/Amber	7 colors Green/Yellow/Red/White/Blue/Cyan/ Magenta	15 colors
Candela*	Green: 21 Cd Yellow: 18 Cd Red: 6,4 Cd White: 20 Cd Blue: 3 Cd Amber: 18 Cd	Green: 6,2 Cd Yellow: 5,2 Cd Red: 2,2 Cd Blue: 1,5 Cd White: 5 Cd Cyan: 5,5 Cd Magenta: 0,85 Cd	Green: 6,2 Cd Yellow: 5,2 Cd Red: 2,2 Cd Blue: 1,5 Cd White: 5 Cd Cyan: 5,5 Cd Magenta: 0,85 Cd
LED Type	Discrete	RGB	RGB
LED Lifetime	60.000 h (L50B10)	50.000 h (L50B10)	50.000 h (L50B10)
Number of animation modes	Monocolor: 10 animation modes Bicolor: 7 animation modes Tricolor: 5 animation modes	Up to 3 animation modes	15 animation modes
Animation modes	Steady, flash, beat, multiflash, color alternation, high intensity beat, steady/flash/beat/multiflash/high intensity beat ECO mode	Steady, color alternation, high intensity beat	IO-Link Standard
Touch Button (optional)	x	x	x
Touch haptic feedback (optional)		x	x
Housing color	Black, white, stainless steel	Black, white, stainless steel	Black, white, stainless steel
Nominal power (24V)	Up to 1,45 W	Up to 1,32 W	Up to 1,32 W
Features			
Active Thermal Control	x	x	x
Active Inrush Current Control	x	x	x
Smart Diagnostics		x	
Polarity	PNP/NPN	PNP/NPN	PNP

* thermally stabilized at room temperature

SD5B

DIMENSION DRAWING



ORDER DATA SMART DOT 50

Type	Part number	Feature Line	Colors	Housing Color
SD5B1	SD50-G	Basic	Green	Black
SD5B1	SD50-R	Basic	Red	Black
SD5B1	SD50-A	Basic	Amber	Black
SD5B1	SD50-B	Basic	Blue	Black
SD5B1	SD50-W	Basic	White	Black
SD5B2	SD50-GR	Basic	Green/Red	Black
SD5B2	SD50-GY	Basic	Green/Yellow	Black
SD5B2	SD50-GW	Basic	Green/White	Black
SD5B2	SD50-AW	Basic	Amber/White	Black
SD5B3	SD50-GYR	Basic	Green/Yellow/Red	Black
SD5B3	SD50-GYR-W	Basic	Green/Yellow/Red	White
SD5B3	SD50-GYR-S	Basic	Green/Yellow/Red	Stainless Steel
SD5B3	SD50-GRB	Basic	Green/Red/Blue	Black
SD5B3	SD50-GRW	Basic	Green/Red/White	Black
SD5B3	SD50-GYB	Basic	Green/Yellow/Blue	Black
SD5B3	SD50-GYW	Basic	Green/Yellow/White	Black
SD5B3	SD50-GBW	Basic	Green/Blue/White	Black
SD5S7	SD50-MC7	Standard	Green/Yellow/Red/Blue/White/Cyan/Magenta	Black
SD5S7	SD50-MC7-W	Standard	Green/Yellow/Red/Blue/White/Cyan/Magenta	White
SD5S7	SD50-MC7-S	Standard	Green/Yellow/Red/Blue/White/Cyan/Magenta	Stainless Steel


SA5B


SA5BF


SA5QM


SA5MR


CM12


SA5MV


SA5T


ADM30

ACCESSORIES

Type	Order number	Type of accessory
SA5B	SA50B90	M22 bracket 90° stainless steel
SA5BF	SA50BF	M22 bracket flat stainless steel
SA5QM	SA50-QM100	M22 quick foot mount 100 mm
SA5QM	SA50-QM250	M22 quick foot mount 250 mm
SA5QM	SA50-QM400	M22 quick foot mount 400 mm
SA5MR	SA50-MR100	M22 retrofit foot mount 100 mm
CM12	CM12-5-A-05	Sensorcable, 5 pin, free cable end, on socket straight M12, coding: A, cable length: 0,5 m
CM12	CM12-5-A-1	Sensorcable, 5 pin, free cable end, on socket straight M12, coding: A, cable length: 1,0 m
CM12	CM12-5-A-2	Sensorcable, 5 pin, free cable end, on socket straight M12, coding: A, cable length: 2,0 m
SA5MV	SA50-MV100	Wall mount 100 mm
SA5T	SA50-TLP	Mounting tulip
ADM30	812500900	Adapter for M30.5 for 30.5 mm holes