SD50 Smart Dot 50 Basic

- Extreme brightness, color brilliance 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

TECHNICAL DATA

Housing	Polycarbonate, UV stabilized, black, white or stainless steel
Lens	Polycarbonate, UV stabilized, 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

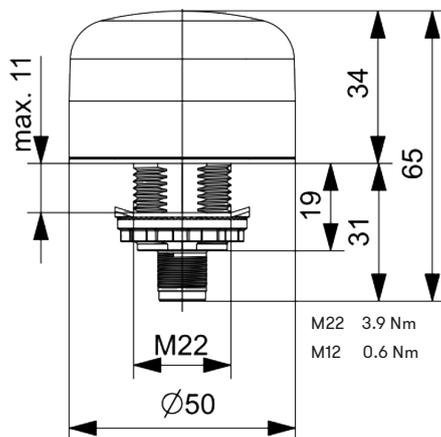|	
Operating temperature	-40 °C / +70 °C
Degree of protection	IP66 / IP67 / IP69 / IP69K / IP6K9K & UL Type 4/4X
Impact resistance	IK08
Shock vibration resistance	- IEC 60068-2-6 (Vibration: 10 Hz to 55 Hz, 1.0 mm amplitude, 5 minutes sweep, 30 minutes dwell) - IEC 60068-2-27 (Shock: 30G 11 ms duration, 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	47 g (black/white housing)

IP66 IP67 IP69 IP69K IP6K9K IK08 +70 °C -40 °C CE c UL us

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	7 colors	15 colors
	Green/Yellow/Red/White/Blue/Amber	Green/Yellow/Red/White/Blue/Cyan/ Magenta	
Candela*	Green: 21 Cd	Green: 6,2 Cd	Green: 6,2 Cd
	Yellow: 18 Cd	Yellow: 5,2 Cd	Yellow: 5,2 Cd
	Red: 6,4 Cd	Red: 2,2 Cd	Red: 2,2 Cd
	White: 20 Cd	Blue: 1,5 Cd	Blue: 1,5 Cd
	Blue: 3 Cd	White: 5 Cd	White: 5 Cd
	Amber: 18 Cd	Cyan: 5,5 Cd	Cyan: 5,5 Cd
		Magenta: 0,85 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	Up to 3 animation modes	15 animation modes
	Bicolor: 7 animation modes		
	Tricolor: 5 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

max. 11

34

65

19

31

M22   3.9 Nm
M12   0.6 Nm

M22

Ø50

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-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

ORDER DATA SMART DOT 50 TOUCH

Type	Part Number	Feature Line	Colors	Housing Color
SD5BT	SD50T-GYR	Basic	Green/Yellow/Red	Black
SD5ST	SD50T-MC7	Standard	Green/Yellow/Red/White/Cyan/Magenta	Black
SD5ST	SD50T-MC7-W	Standard	Green/Yellow/Red/White/Cyan/Magenta	White