

PFANNENBERG INTENSE BR 50 SIGNAL TOWERS



protection
system



operating
temperature



- **Ultra bright and super slim** – Excellent perceptibility and slim design (ø 54 mm).
- **Signaling mode determinable by LED** – Replaceable LEDs determine the signaling mode (continuous or blinking light). The standard modules are already equipped with continuous light LEDs.
- **Individual configuration** – Up to 5 modules can be combined at any time. In addition to various LED light modules, Xenon flashing light modules, or an audible module can also be installed.
- **Flexible design options** – Fully Coloured or Crystal-Clear modules with coloured LEDs - the choice is yours. Assemble your individual signal tower according to your needs and design ideas.
- **Versatile mounting options** – Can either be mounted by tubular stand with plinth, tube, mounting bracket or directly - even with ready-made M12 connector available (see mounting equipment)
- **Universally applicable** – Usable indoors and outdoors.
- **Function-monitored** – Separate LED module for more safety in sensitive applications where a signal must be sent to an external safety system, operating station or control centre in the event of a malfunction.
- **Fieldbus connection** – Easy integration into an AS-Interface bus system is possible with a separate module.

	EASY- and FLEXI MODULES	BASE / END MODULE
Total number of modules	max. 5 (Customisable order and colour)	1
Operating temperature	-25°C - +50°C	
Protection type EN 60529	IP 54 (Optional IP65)	
Material	Lens Polycarbonate (UV-resistant)	–
	Base Acrylonitrile butadiene styrene (ABS)	
Article no.		28250010000

EASY MODULES (LED INTEGRATED BY DEFAULT)

	LIGHT INTENSITY	NOMINAL CURRENT CONSUMPTION	OPERATING RANGE	ARTICLE NO.
Continuous light module Fully coloured - Yellow	27 cd	AC: 171mA; DC: 85 mA	10-30V AC/DC	28250376033
Continuous light module Fully coloured - Amber	15 cd	AC: 114mA; DC: 85 mA		28250376042
Continuous light module Fully coloured - Red	5 cd	AC: 121mA; DC: 85 mA		28250376055
Continuous light module Fully coloured - Green	9 cd	AC: 113mA; DC: 85 mA		28250376066
Continuous light module Fully coloured - Blue	3 cd	AC: 114mA; DC: 85 mA		28250376072
Continuous light module Crystal Clear - White	23 cd	AC: 114mA; DC: 85 mA		28250376012
Continuous light module Crystal Clear - Yellow	28 cd	AC: 171mA; DC: 85 mA		28250376013
Continuous light module Crystal Clear - Green	22 cd	AC: 113mA; DC: 85 mA		28250376016
Continuous light module Crystal Clear - Red	6 cd	AC: 121mA; DC: 85 mA		28250376015

FLEXI MODULES (WITHOUT LIGHT SOURCE)

	LIGHT INTENSITY	NOMINAL CURRENT CONSUMPTION	OPERATING RANGE	ARTICLE NO.
Signaling module Clear (Crystal Clear)	According to the selected LED			28250040010
Signaling module Yellow				28250040030
Signaling module Orange				28250040040
Signaling module Red				28250040050
Signaling module Green				28250040060
Signaling module Blue				28250040070

Further versions on request



LED CONTINUOUS LIGHT					
	LIGHT INTENSITY*	NOMINAL CURRENT CONSUMPTION	OPERATING RANGE	SERVICE LIFE	ARTICLE NO.
LED BA 15d Continuous light Yellow 24V AC/DC	28 cd	AC: 171mA; DC: 85 mA	10-30V AC/DC	>25.000h	28213000099
LED BA 15d Continuous light Red 24V AC/DC	6 cd	AC: 121mA; DC: 85 mA			28213000100
LED BA 15d Continuous light Green 24V AC/DC	22 cd	AC: 113mA; DC: 85 mA			28213000101
LED BA 15d Continuous light White 24V AC/DC	23 cd	AC: 114mA; DC: 85 mA			28213000102
LED BA 15d Continuous light Yellow 230V AC	17 cd	19 mA	220-240V AC		28213000103
LED BA 15d Continuous light Red 230V AC	4 cd	21 mA			28213000104
LED BA 15d Continuous light Green 230V AC	12 cd	22 mA			28213000105
LED BA 15d Continuous light White 230V AC	14 cd	22 mA			28213000106

LED BLINKING LIGHT (1Hz)					
	LIGHT INTENSITY*	NOMINAL CURRENT CONSUMPTION	OPERATING RANGE	SERVICE LIFE	ARTICLE NO.
LED BA 15d Blinking light Yellow 24V AC/DC	28 cd	AC: 86 mA; DC: 51 mA	10-30V AC/DC	>25.000h	28213000107
LED BA 15d Blinking light Red 24V AC/DC	6 cd	AC: 61 mA; DC: 37 mA			28213000108
LED BA 15d Blinking light Green 24V AC/DC	22 cd	AC: 57 mA; DC: 53 mA			28213000109
LED BA 15d Blinking light White 24V AC/DC	23 cd	AC: 57 mA; DC: 58 mA			28213000110
LED BA 15d Blinking light Yellow 230V AC	17 cd	10mA	220-240V AC		28213000111
LED BA 15d Blinking light Red 230V AC	4 cd	11 mA			28213000112
LED BA 15d Blinking light Green 230V AC	12 cd	11 mA			28213000113
LED BA 15d Blinking light White 230V AC	14 cd	11 mA			28213000114

* Values for LEDs with clear signal module
Further versions on request
Please note that the LEDs are only intended for use in the BR 50 modules!

RECOMMENDED COLOUR COMBINATIONS	
SIGNALING MODULE COLOUR	LED COLOUR
	
	
	
	
	
	   



LED light source

MOUNTING EQUIPMENT		
	MATERIAL	ARTICLE NO.
Wall bracket	ABS; for mounting stand	28250200000
Mounting stand with plinth - 100mm	Stainless steel tube and PA 6 (Polyamid) plinth	28250150010
Mounting stand with plinth - 250mm	Stainless steel tube and PA 6 (Polyamid) plinth	28250150020
Mounting stand with plinth - 400mm	Stainless steel tube and PA 6 (Polyamid) plinth	28250150040
Tube with thread and bracket - 100mm	Stainless steel tube and bracket	28250160010
Tube with thread and bracket - 250mm	Stainless steel tube and bracket	28250160020
Tube with thread and bracket - 400mm	Stainless steel tube and bracket	28250160040
Base / end module with M12 connector	ABS and stainless steel adapter	28250126000
Base / end module on stand 100mm + M12 connector	ABS and stainless steel tube with PA 6 (Polyamid) plinth	28250126010
Base / end module on stand 250mm + M12 connector	ABS and stainless steel tube with PA 6 (Polyamid) plinth	28250126020
Base / end module on stand 400mm + M12 connector	ABS and stainless steel tube with PA 6 (Polyamid) plinth	28250126040
Bracket for direct mounting for all bases w. or w/o M12	Stainless steel	28250180000
Bracket for stand mouting for all stands w. or w/o M12	Stainless steel	28250190000



FLASHING LIGHT MODULES		
	24V AC/DC	230V AC
Flash energy	1 J	0.6 J
Flash frequency	ca. 1 Hz	
Nominal current consumption (50/60 Hz)	100 mA	10.5 mA
Operating range	AC: 10-27V DC: 10-35V	-10% ...+15%
Duty cycle	100%	
Service Life	after 8 million flashes still at least 70% light emission	
ARTICLE NO.		
Flashlight module Clear	28250078010	28250071010
Flashlight module Yellow	28250078030	28250071030
Flashlight module Amber	28250078040	28250071040
Flashlight module Red	28250078050	28250071050
Flashlight module Green	28250078060	28250071060
Flashlight module Blue	28250078070	28250071070

INTERFACE AND SAFETY MODULES		
	Monitored-LED	AS-i Modul
Module Type	2x8 LED, monitored continuous light	Can be combined with all light and sounder modules
Total number of modules	max. 3	max. 4
AS-i Profile	—	S-8.F.E
AS-i Specification	—	AS-i 3.0 / EN 50295
Max. Slave/Master	—	31
Alarm output	max. 230V /80mA, RONmax = 35 Ω (Closed during fault-free operation)	—
Rated voltage	24V DC	—
Functional area	-15% ... + 20%	26.5 - 31.6 V
Nominal current consumption	35 mA	285 mA
ARTICLE NO.		
LED module Yellow monitored top segment	28250068030	—
LED module Red monitored top segment	28250068050	—
LED module Green monitored top segment	28250068060	—
LED module Yellow monitored bottom segment	28250368030	—
LED module Red monitored bottom segment	28250368050	—
LED module Green monitored bottom segment	28250368060	—
AS-i Module	—	28250148300

SOUNDER MODULES		
	24V AC/DC	230V AC
Nominal current consumption	12 mA	15 mA
Operating range	-15% ... +20%	-15% ... +10%
Sound pressure level / reducible	87 / -10 dB (A)	
Sound pressure level @ DIN-Ton	85 dB (A)	
Tone types	10 (details see Tone Table)	
Operating temperature	-25° C ... + 50° C	
Protection type EN 60529	IP 54	
ARTICLE NO.		
Sounder module	28250088000	28250081000

Further versions on request

DIMENSIONS ASSEMBLED SIGNAL TOWERS							
	DIAMETER: 54mm; TOTAL HEIGHT WITH SOUNDER MODULE +21mm						
	STAND WITH PLINTH INSTALLATION LENGTH OF PIPE			TUBE WITH THREAD INSTALLATION LENGTH OF PIPE			DIRECT ASSEMBLY
Signal module	100mm	250mm	400mm	100mm	250mm	400mm	-
1	183mm	333mm	483mm	209mm	359mm	509mm	107mm
2	246mm	396mm	546mm	272mm	422mm	572mm	170mm
3	309mm	459mm	609mm	335mm	485mm	635mm	233mm
4	372mm	522mm	672mm	398mm	548mm	698mm	296mm
5	435mm	585mm	735mm	461mm	611mm	761mm	359mm

ACCESORIES		
		ARTICLE NO.
Flexi Tool	for easy change of the LED bulb	28250250000
Module gasket IP 65	1x per light module plus 1x base module	28250220000
Tube gasket IP 65	for stand or tube mounting	28250230000
Direct mounting set	1x surface gasket; 4x screws 4,2x16	28250210000



Flexi Tool



Module
gasket



Tube
gasket



Surface
gasket

TONE TABLE	
NO.	DESCRIPTION
2	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP 1200 Hz 1 s 500 Hz
16	Slow whoop, evacuation Australia AS2220 1200 Hz 3,75 s 500 Hz 0,25 s
29	Sweeping (fast) 2900 Hz 0,02 s 2400 Hz 0,02 s
35	Sweeping, UK BS5839-1 (fast sweep) 1000 Hz 0,14 s 800 Hz 0,14 s
56 ¹	Continuous tone 1000 Hz
109	Intermittent, Australia AS2220, AS1610, AS1670 420 Hz 0,625 s 0,625 s
110	Simulated bell 
131	Alternating tone 1000 Hz 0,25 s 800 Hz 0,25 s
146	Alternating tone, France NFS 32-001 (fire alarm) 554 Hz 0,1 s 440 Hz 0,4 s
167	Slow whoop 1200 Hz 3 s 500 Hz 0,5 s

¹ factory setting