



- Lamp: Flashing beacon – XENON (5 / 10 J) / LED (6.5 W)
- Type of protection: Ex d
- Class: IP66/IP67 (IEC 60529 / NEMA 4X)
- Robust aluminium enclosure (powder-coated)
- Stainless steel protection cage and mounting bracket included
- 8 light-intensifying Fresnel lens colours available to order
- Telephone system connection optionally available to order

E5

WebCode **FL60B**



Product series FL60 is designed to provide a visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues in hazardous areas. The devices are intended for use in hazardous areas or harsh environments.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

	NEC 500 CEC Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in	•	•	•	•	•	

	CEC Section 18					
	NEC® 505			NEC® 506		
	Class I					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Flashbulb		5 J				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	Weight kg	
115 V	–	Clear	FL60/B/L50/C/UL	261246	5.080	
230 V	–	Amber	FL60/B/N50/A/UL	212367	5.080	
		Red	FL60/B/N50/R/UL	211406	5.080	
Certificates Flashbulb		ATEX (BAS), EAC (ENDCE), IECEX (BAS), Russian Federation (TPB SER)				
Flashbulb		5 J				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	Weight kg	
115 V	–	Amber	FL60/C/L50/A/RU	212382	5.080	
		Red	FL60/C/L50/R/RU	212383	5.080	
230 V	–	Amber	FL60/C/N50/A/RU	212384	5.080	
		Red	FL60/C/N50/R/RU	212385	5.080	
		Yellow	FL60/C/N50/Y/RU	220086	5.080	
–	24 V	Amber	FL60/C/D50/A/RU	206976	5.080	
		Red	FL60/C/D50/R/RU	212381	5.080	
		Yellow	FL60/C/D50/Y/RU	264017	5.080	

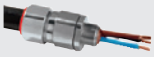
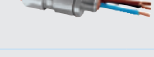



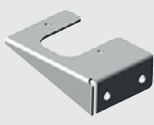

Selection Table					
Certificates Flashbulb		ATEX (BAS), IECEX (BAS), SIL (exida) 5 J			
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	Weight kg
115 V	-	Amber	FL60/C/L50/A/EU	212366	5.080
		Blue	FL60/C/L50/B/EU	205143	5.080
		Green	FL60/C/L50/G/EU	205144	5.080
		Red	FL60/C/L50/R/EU	205145	5.080
230 V	-	Amber	FL60/C/N50/A/EU	205150 ■	5.080
		Blue	FL60/C/N50/B/EU	205151	5.080
		Clear	FL60/C/N50/C/EU	205152	5.080
		Red	FL60/C/N50/R/EU	205153 ■	5.080
		Yellow	FL60/C/N50/Y/EU	205155 ■	5.080
-	24 V	Amber	FL60/C/D50/A/EU	205129 ▲	5.080
		Blue	FL60/C/D50/B/EU	205130	5.080
		Clear	FL60/C/D50/C/EU	206984	5.080
		Green	FL60/C/D50/G/EU	206982	5.080
		Red	FL60/C/D50/R/EU	205133 ▲	5.080
		Yellow	FL60/C/D50/Y/EU	205140 ■	5.080
Certificates Flashbulb		ATEX (BAS), IECEX (BAS), SIL (exida) 10 J			
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	Weight kg
115 V	-	Clear	FL60/C/L100/C/EU	205142	5.080
		Red	FL60/C/L100/R/EU	206993	5.080
		Yellow	FL60/C/L100/Y/EU	252627	5.080
230 V	-	Amber	FL60/C/N100/A/EU	205146	5.080
		Blue	FL60/C/N100/B/EU	205147	5.080
		Red	FL60/C/N100/R/EU	205148	5.080
		Yellow	FL60/C/N100/Y/EU	229927	5.080
Certificates Flashbulb		Canada / USA (UL) 5 J			
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	Weight kg
-	24 V	Amber	FL60/B/D50/A/UL	205156	5.080
		Blue	FL60/B/D50/B/UL	205368	5.080
		Clear	FL60/B/D50/C/UL	205159	5.080
		Red	FL60/B/D50/R/UL	205160	5.080
		Yellow	FL60/B/D50/Y/UL	205369	5.080

Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet. WebCode FL60B


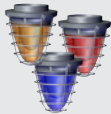
Technical Data				
Variant	FL60/.50/.JUL Xenon flash tubes	FL60/.100/.EU Xenon flash tubes	FL60 - EU	FL60/.50/.RU Xenon flash tubes
Explosion Protection				
IECEX gas explosion protection	Ex d IIB+H2 T4 Gb	Ex d IIB+H2 T4 Gb	Ex d IIB+H2 T4/T6 Gb	
IECEX gas explosion protection			Ex d IIB+H2 T6 Gb	

Technical Data				
Variant	FL60/.50/.UL Xenon flash tubes	FL60/.100/.EU Xenon flash tubes	FL60 - EU	FL60/.50/.RU Xenon flash tubes
Explosion Protection				
IECEx dust explosion protection	Ex tb IIIC T135 °C Db	Ex tb IIIC T135 °C Db	Ex tb IIIC T135 °C ... T85 °C Db	
IECEx dust explosion protection 2			Ex tb IIIC T85 °C Db	
ATEX gas explosion protection	Ⓔ II 2 G Ex d IIB+H2 T4 Gb	Ⓔ II 2 G Ex d IIB+H2 T4 Gb	Ⓔ II 2 G Ex d IIB+H2 T4/T6 Gb	
ATEX gas explosion protection			Ⓔ II 2 G Ex d IIB+H2 T6 Gb	
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T135 °C Db	Ⓔ II 2 D Ex tb IIIC T135 °C Db	Ⓔ II 2 D Ex tb IIIC T135 °C ... T85 °C Db	
ATEX dust explosion protection 2			Ⓔ II 2 D Ex tb IIIC T85 °C Db	
EAC gas explosion protection				Ⓔ 1 Ex d IIB+H2 T4 Gb X Ⓔ 1 Ex d IIB+H2 T6 Gb X
EAC dust explosion protection				Ⓔ Ex tb IIIC T135 °C Db X Ⓔ Ex tb IIIC T85 °C Db X
Marking cULus	Class I, Div. 1,2, Groups B,C,D Class II, Groups E,F,G Class III Class I, Zone 1 AEx/Ex d IIB + H ₂			
Electrical Data				
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %	-10 – 10 %
Ambient Conditions				
Ambient temperature	-20 °C ... +60 °C (T4)	-20 °C ... +60 °C (T4)	-20 °C ... +60 °C (T4) -20 °C ... +40 °C (T6)	-20 °C ... +60 °C -20 °C ... +40 °C
Lighting Data				
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flash rate	1 Hz	1 Hz	1 Hz	1 Hz
Mechanical Data				
IP degree of protection (IEC 60529)	IP66	IP66	IP66	IP66
Class	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Sealing material	NBR O-ring seal	NBR O-ring seal	NBR O-ring seal	NBR O-ring seal
Material glas dome	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Wire guard material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Max. solid connection terminals	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Max. finely stranded connection terminals	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	Red (RAL 3001)	red normal	red normal	red normal
Mounting / Installation				
Mounting part material	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Connection type	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Components				
Drilled holes	2 x M20	2 x M20	2 x M20	2 x M20
Cable glands and entries	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plugs	1 x 1/2" NPT 1 x dust cap 2 x adaptor M20x1/2"NPT	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	1 x dust cap 1 x M20 x 1.5
Stopping plug material	Brass	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode FL60B				

Accessories

Figure	Description	Art. No.	Weight kg
Cable glands made of metal			
	Ex d & Ex e cable entry with compound for all types of armoured cables (SWA, braided, tape) (nickel-plated brass) Type 20PX2K, M20 x 1.5	109428 ▲	0.240
	Ex d & Ex e Cable entry with RapidEx sealing system for all types of unarmoured and braid armour cables (nickel-plated brass) Type 20PX2K-REX, M20 x 1.5	246649 ■	0.240
	Ex d & Ex e Cable entry with compound gland for all types of unarmoured and braid armour cables (nickel plated brass) Type 20PXSS2K, M20 x 1.5	109441 ▲	0.200
	Ex d & Ex e Cable entry with RapidEx sealing system for all types of unarmoured and braid armour cables (nickel-plated brass) Type 20PXSS2K-REX, M20 x 1.5	246605 ■	0.200
Mounting accessories			
	L-bracket, stainless steel, (available for FL60, YL60, YA60)	210794 ■	0.400
	Mounting bracket material: stainless steel	262014	0.290
	Sun shield, stainless steel (available for FL60)	262012	0.180

Spare Parts

Figure	Description	Art. No.	Weight kg
Moulding-lens			
	yellow	209406	0.070
	clear	209402	0.070
	red	209405	0.070
Flange			
	Flange, UL, amber (available for FL60, YL60)	209421	1.080
	Flange, UL, blue (available for FL60, YL60)	209422	1.080
	Flange, UL, clear (available for FL60, YL60)	209423	1.080
	Flange, UL, red (available for FL60, YL60)	209426	1.080

Approvals of the cable entries must be observed.

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

E5

