



- Lamp: Flashing beacon – XENON (5 / 10 J)
- 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		•	•		•	•

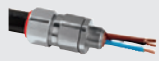




Selection Table						
Certificates Flash engery		ATEX (BAS), Canada / USA (UL), IECEx (BAS) 5 J				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	Weight kg	
115 V	–	Clear	FL60/B/L50/C/UL	261246	5.080	
230 V	–	Amber	FL60/B/N50/A/UL	212367	5.080	
		Red	FL60/B/N50/R/UL	211406	5.080	
		–	24 V	Amber	FL60/B/D50/A/UL	205156
		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	
Certificates Flash engery		ATEX (BAS), EAC (TehnoP), India (PESO), Russian Federation (TPB SER) 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	


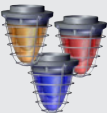
Selection Table					
Certificates Flash energy		ATEX (BAS), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI) 5 J			
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	Weight kg
115 V	-	Amber	FL60/C/L50/A/EU	212366	5.080
		Blue	FL60/C/L50/B/EU	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 Flash energy		ATEX (BAS), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI) 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
-	24 V	Amber	FL60/C/D100/A/EU	243725	5.080
		Blue	FL60/C/D100/B/EU	222058	5.080
		Clear	FL60/C/D100/C/EU	260788	5.080
		Red	FL60/C/D100/R/EU	205124	5.080
		Yellow	FL60/C/D100/Y/EU	205125	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
The tone table can be found online at r-stahl.com.

Technical Data				
Variant	5 J (ATEX / IECEx)	10 J (ATEX / IECEx)	5 J (EAC)	5 J (UL)
Explosion Protection				
Ambient temperature °C	-20 ... +60 °C	-20 ... +60 °C	-20 ... +60 °C	-20 ... +60 °C
IECEx gas explosion protection	Ex d IIB+H2 T4/T6 Gb	Ex d IIB+H2 T4 Gb		Ex d IIB+H2 T4 Gb
IECEx gas explosion protection	Ex d IIB+H2 T6 Gb			
IECEx dust explosion protection	Ex tb IIIC T135 °C ... T85 °C Db	Ex tb IIIC T135 °C Db		Ex tb IIIC T135 °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/T6 Gb	Ⓜ II 2 G Ex d IIB+H2 T4 Gb		Ⓜ II 2 G Ex d IIB+H2 T4 Gb

Technical Data				
Variant	5 J (ATEX / IECEx)	10 J (ATEX / IECEx)	5 J (EAC)	5 J (UL)
Explosion Protection				
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 ... T85 °C Db	⊕ II 2 D Ex tb IIIC T135 °C Db	⊕ II 2 D Ex tb IIIC T135 °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	1 Ex tb IIIC T135 °C Db X 1 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 ... +40 °C (T6)	-20 °C ... +60 °C (T4)	-20 °C ... +60 °C -20 °C ... +40 °C	-20 °C ... +60 °C (T4)
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				
Degree of protection IP (IEC 60529)	IP66	IP66	IP66	IP66
Protection 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
Material wire guard	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	red normal	red normal	red normal	Red (RAL 3001)
Mounting / Installation				
Material mounting parts	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 entries	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	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	1 x 1/2" NPT 1 x dust cap 2 x adapters M20x1/2"NPT
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 Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	0.200
Mounting bracket			
	Stainless steel bracket fixing kit accessories	210794	0.400
	material: stainless steel	262014	0.290
Sun shield			
	material: stainless steel	262012	0.180

Spare Parts			
Figure	Description	Art. No.	Weight kg
Moulding-lens			
	clear	209402	0.070
	red	209405	0.070
	yellow	209406	0.070
Emergency light flange			
	amber UL spare	209421	1.080
	blue UL spare	209422	1.080
	clear UL spare	209423	1.080
	red UL spare	209426	1.080

Approvals of the cable entries must be observed.

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

E5

