



- 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)
- Including stainless steel protective cage and fastening bracket
- Eight light-amplifying Fresnel lens colours can be ordered
- Connection for telephone systems can be ordered as an option

MY R. STAHL FL60B



The **FL60 product series** provides visual alarm signals which can be used to alert, warn or draw attention to equipment malfunction/start-up or any number of safety-related issues in hazardous areas. The devices are intended for use in hazardous or harsh environments.

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

Selection Table						
Lamp		LED				
Rated operational voltage DC		21.1 ... 24 V				
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight	
ATEX (BVIS), IECEx (BVIS)	Amber	–	FL60/21-DV0000-AW0002-ST0000-0000	284516	5.08 kg	
	Red	–	FL60/21-DV0000-RR0002-ST0000-0000	284514	5.08 kg	
	Yellow	–	FL60/21-DV0000-YW0002-ST0000-0000	284515	5.08 kg	
Lamp		Xenon flash tubes				
Rated operational voltage AC		115 V				
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight	
ATEX (BAS), IECEx (BAS), SIL (exida)	Amber	28 cd	FL60/C/L50/A/EU	212366	5.08 kg	
	Blue	13 cd	FL60/C/L50/B/EU	205143	5.08 kg	
	Green	10 cd	FL60/C/L50/G/EU	205144	5.08 kg	
	Red	14 cd	FL60/C/L50/R/EU	205145	5.08 kg	
Lamp		Xenon flash tubes				
Rated operational voltage AC		230 V				
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight	
ATEX (BAS), IECEx (BAS), SIL (exida)	Amber	28 cd	FL60/C/N50/A/EU	205150	5.08 kg	
	Blue	13 cd	FL60/C/N50/B/EU	205151	5.08 kg	
	Clear	46 cd	FL60/C/N50/C/EU	205152	5.08 kg	
	Red	14 cd	FL60/C/N50/R/EU	205153	5.08 kg	
	Yellow	42 cd	FL60/C/N50/Y/EU	205155	5.08 kg	

Selection Table

Lamp		Xenon flash tubes			
Rated operational voltage DC		21.1 ... 24 V			
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight
ATEX (BVIS), IECEx (BVIS)	Amber	-	FL60/21-D05000-AW0002-ST0000-0000	284507	5.08 kg
	Red	-	FL60/21-D05000-RW0002-ST0000-0000	284508	5.08 kg
	Yellow	-	FL60/21-D05000-YW0002-ST0000-0000	284509	5.08 kg
Lamp		Xenon flash tubes			
Rated operational voltage DC		24 V			
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight
ATEX (BAS), IECEx (BAS), SIL (exida)	Amber	28 cd	FL60/C/D50/A/EU	205129	5.08 kg
	Blue	13 cd	FL60/C/D50/B/EU	205130	5.08 kg
	Clear	46 cd	FL60/C/D50/C/EU	206984	5.08 kg
	Green	10 cd	FL60/C/D50/G/EU	206982	5.08 kg
	Red	14 cd	FL60/C/D50/R/EU	205133	5.08 kg
	Yellow	42 cd	FL60/C/D50/Y/EU	205140	5.08 kg

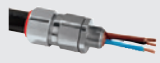




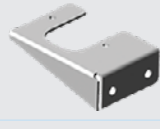

Additional gas groups, flash energy, voltage and illuminated section colour variants are available; please use the selection table online at r-stahl.com. MY R. STAHL FL60B

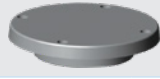
Technical Data

Variant	FL60/21-DV0000-LED	FL60/21-D05000 Xenon flash tubes	FL60 – EU
Explosion Protection			
IECEx gas explosion protection	Ex db IIC T6 / T4 Gb	Ex db IIC T6 / T4 Gb	Ex db IIB+H2 T4 / T6 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C / T100 °C Db	Ex tb IIIC T80 °C / T100 °C Db	Ex tb IIIC T135 °C / T85 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db IIC T6 / T4 Gb	⊕ II 2 G Ex db IIC T6 / T4 Gb	⊕ II 2 G Ex db IIB+H2 T4 / T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C / T100 °C Db	⊕ II 2 D Ex tb IIIC T80 °C / T100 °C Db	⊕ II 2 D Ex tb IIIC T135 °C / T85 °C Db
Electrical Data			
Tolerance	-10 ... 10 %	-10 ... 10 %	-10 ... 10 %
Ambient Conditions			
Ambient temperature gas Ex-area	-45 °C ... +50 °C (T6)	-45 °C ... +50 °C (T6)	
	-45 °C ... +70 °C (T4)	-45 °C ... +70 °C (T4)	
Ambient temperature dust Ex-area	-35 °C ... +50 °C (T80 °C)	-35 °C ... +50 °C (T80 °C)	
	-35 °C ... +70 °C (T100 °C)	-35 °C ... +70 °C (T100 °C)	
Functional ambient temperature	-40 °C ... +50 °C (T6)	-40 °C ... +50 °C (T6)	-20 °C ... +60 °C (T4)
	-40 °C ... +70 °C (T4)	-40 °C ... +70 °C (T4)	-20 °C ... +40 °C (T6)
Ambient temperature			-20 °C ... +60 °C (T4) -20 °C ... +40 °C (T6)
Lighting Data			
Flashbulb		5 J	5 J
Flash rate	1 Hz 1.5 Hz 2 Hz Double flash 1 Hz Double flash 2 Hz Triple flash 1 Hz Triple flash 2 Hz	1 Hz	1 Hz
Mechanical Data			
Degree of protection (IP) (IEC 60529)	IP66	IP66	IP66
Class	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
Sealing material	NBR O-ring seal	NBR O-ring seal	NBR O-ring seal

Technical Data			
Variant	FL60/21-DV0000-LED	FL60/21-D05000 Xenon flash tubes	FL60 – EU
Mechanical Data			
Material glas dome	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate
Wire guard material	Stainless steel	Stainless steel	Stainless steel
Max. solid connection terminals	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
Enclosure colour	Red (RAL 3001)	Red (RAL 3001)	red normal
Mounting / Installation			
Mounting part material	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Connection type	Push in	Push in	Screw terminal
Components			
Drilled holes	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
Stopping plugs	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap
Stopping plug material	Brass	Brass	Brass

You can find more technical data online at r-stahl.com. MY R. STAHL FL60B

Accessories			
Figure	Description	Art. No.	Weight
Metal cable gland			
	Ex d and Ex e cable gland with compound for all types of armoured cables (SWA, wire-braid, tape) (nickel-plated brass) Type 20PX2K, M20 x 1.5	109428	240 g
	Ex d and Ex e cable glands with RapidEx sealing system for all types of unarmoured cables and wire-braid-armoured cables (nickel-plated brass) Type 20PX2K-REX, M20 x 1.5	246649	240 g
	Ex d and Ex e cable glands with compound for all types of unarmoured cables and wire-braid-armoured cables (nickel-plated brass) Type 20PXSS2K, M20 x 1.5	109441	200 g
	Ex d and Ex e cable glands with RapidEx sealing system for all types of unarmoured cables and wire-braid-armoured cables (nickel-plated brass) Type 20PXSS2K-REX, M20 x 1.5	246605	200 g
Mounting accessories			
	L-bracket, stainless steel, (available for FL60, YL60, YA60)	210794	300 g
	Mounting bracket Material: Stainless steel	262014	290 g
	Sun shield, stainless steel (available for FL60)	262012	180 g

Spare Parts			
Figure	Description	Art. No.	Weight
Cover FL60/YA60			
	Cover with set of screws	227892	1 kg

Spare Parts

Figure	Description	Art. No.	Weight
Lens glass			
	amber	209400	70 g
	blue	209401	70 g
	clear	209402	70 g
	green	209403	70 g
	red	209405	70 g
	yellow	209406	70 g
Spare PCB assembly kit			
	PCB FL60/2 5 J/24 V DC	295347	250 g
	PCB FL60 5 J/48 V DC	223072	95 g
	PCB FL60 5 J/115 to 230 V AC	209503	100 g

Approvals of the cable glands must be observed.

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

