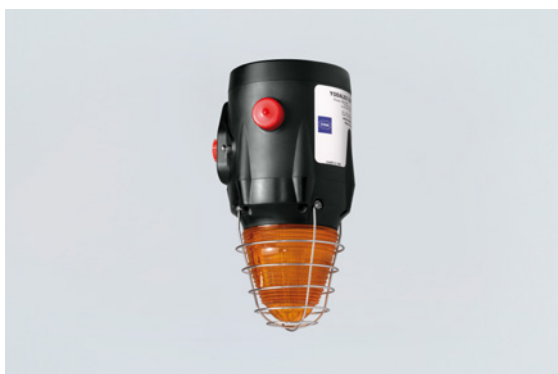




- Lamp: Flashing beacon – XENON (5 J) / LED (6.5 W)
- Type of protection: Ex d
- Class: IP66/IP67 (IEC 60529 / NEMA 4X)
- Corrosion-resistant GRP enclosure
- Stainless steel protection cage and mounting bracket included
- 8 light-intensifying Fresnel lens colours available to order
- Telephone system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

E5
WebCode FL6SA


Product series FL6S 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. Corrosion resistance is a key feature of the device which is ideally suited for applications in the harshest of environments both onshore and offshore.

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

Selection Table

Rated operational voltage AC		115 V			
Lens colour	Product Type			Art. No.	Weight kg
Clear	FL6S/C-L-050-C-EN-SF-A-ST-00-00-00			225162	3.040
Red	FL6S/C-L-050-R-EN-SF-A-ST-00-00-00			225165	3.040
Yellow	FL6S/C-L-050-Y-EN-SF-A-ST-00-00-00			225164	3.040
Rated operational voltage AC		230 V			
Lens colour	Product Type			Art. No.	Weight kg
Amber	FL6S/C-N-050-A-EN-SF-A-ST-00-00-00			225174	3.040
Clear	FL6S/C-N-050-C-EN-SF-A-ST-00-00-00			225170	3.040
Green	FL6S/C-N-050-G-EN-SF-A-ST-00-00-00			225176	3.040
Red	FL6S/C-N-050-R-EN-SF-A-ST-00-00-00			225173	3.040
Yellow	FL6S/C-N-050-Y-EN-SF-A-ST-00-00-00			225172	3.040
Rated operational voltage DC		24 V			
Lens colour	Product Type			Art. No.	Weight kg
Amber	FL6S/C-D-050-A-EN-SF-A-ST-00-00-00			225150	3.040
Blue	FL6S/C-D-050-B-EN-SF-A-ST-00-00-00			225151	3.040
Clear	FL6S/C-D-050-C-EN-SF-A-ST-00-00-00			225146	3.040
Green	FL6S/C-D-050-G-EN-SF-A-ST-00-00-00			225152	3.040
Magenta	FL6S/C-D-050-M-EN-SF-A-ST-00-00-00			225153	3.040
Opal	FL6S/C-D-050-O-EN-SF-A-ST-00-00-00			225147	3.040

Selection Table

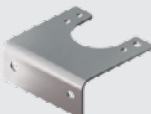
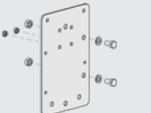
Rated operational voltage DC	24 V		
Lens colour	Product Type	Art. No.	Weight kg
Red	FL6S/C-D-050-R-EN-SF-A-ST-00-00-00	225149	3.040
Yellow	FL6S/C-D-050-Y-EN-SF-A-ST-00-00-00	225148	3.040
Rated operational voltage DC	48 V		
Lens colour	Product Type	Art. No.	Weight kg
Amber	FL6S/C-F-050-A-EN-SF-A-ST-00-00-00	225158	3.040
Clear	FL6S/C-F-050-C-EN-SF-A-ST-00-00-00	225154	3.040
Red	FL6S/C-F-050-R-EN-SF-A-ST-00-00-00	225157	3.040
Rated operational voltage AC	–		
Lens colour	Product Type	Art. No.	Weight kg
Amber	FL6S/21-D05000-AW0003-ST0000-0000	284520	3.040
	FL6S/21-DV0000-AW0003-ST0000-0000	284523	3.040
Red	FL6S/21-D05000-RW0003-ST0000-0000	284521	3.040
	FL6S/21-DV0000-RR0003-ST0000-0000	284528	3.040
Yellow	FL6S/21-D05000-YW0003-ST0000-0000	284522	3.040
	FL6S/21-DV0000-YW0003-ST0000-0000	284529	3.040

Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet at r-stahl.com. WebCode FL6SA

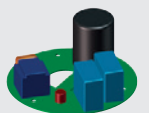
Technical Data

Variant	FL6S/21	FL6S/-L	FL6S/-N	FL6S/-F
Explosion Protection				
IECEx gas explosion protection	Ex db IIC T6 ... T4 Gb	Ex d IIC T5 ... T4 Gb	Ex d IIC T6 ... T4 Gb	Ex d IIC T6 ... T4 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C / T100 °C Db	Ex tb IIIC T83 °C / T113 °C Db	Ex tb IIIC T75 °C ... T105 °C Db	Ex tb IIIC T73 °C ... T103 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db IIC T6 ... T4 Gb	Ⓔ II 2 G Ex d IIC T5 ... T4 Gb	Ⓔ II 2 G Ex d IIC T6 ... T4 Gb	Ⓔ II 2 G Ex d IIC T6 ... T4 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C / T100 °C Db	Ⓔ II 2 D Ex tb IIIC T83 °C / T113 °C Db	Ⓔ II 2 D Ex tb IIIC T75 °C ... T105 °C Db	Ⓔ II 2 D Ex tb IIIC T73 °C ... T103 °C Db
IECEx gas explosion protection 2		Ex d IIC T4 Gb	Ex d IIC T5 Gb	Ex d IIC T5 Gb
IECEx dust explosion protection 2		Ex tb IIIC T113 °C Db	Ex tb IIIC T90 °C Db	Ex tb IIIC T88 °C Db
ATEX gas explosion protection 2		Ⓔ II 2 G Ex d IIC T4 Gb	Ⓔ II 2 G Ex d IIC T5 Gb	Ⓔ II 2 G Ex d IIC T5 Gb
ATEX dust explosion protection 2		Ⓔ II 2 D Ex tb IIIC T113 °C Db	Ⓔ II 2 D Ex tb IIIC T90 °C Db	Ⓔ II 2 D Ex tb IIIC T88 °C Db
Certificates	ATEX (BVIS), IECEx (BVIS)	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)
Electrical Data				
Line monitoring	Yes	Yes	Yes	Yes
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %	-10 – 10 %
Lighting Data				
Lamp	LED	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flashbulb		5 J	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	1 Hz
Mechanical Data				
IP degree of protection (IEC 60529)	IP66	IP66/IP67	IP66/IP67	IP66/IP67

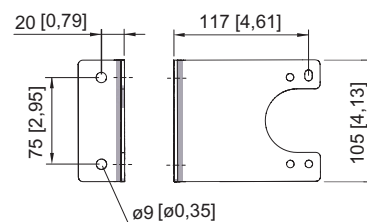
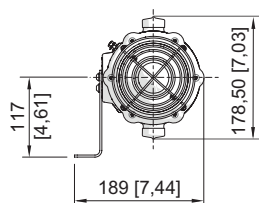
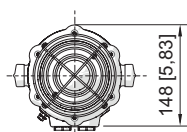
Technical Data				
Variant	FL6S/21	FL6S/-L	FL6S/-N	FL6S/-F
Mechanical Data				
Class	II / Equipotential bonding connection	II / Equipotential bonding connection	II / Equipotential bonding connection	II / Equipotential bonding connection
Enclosure material	Polyester, Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Sealing material	Red silicone 70	Red silicone 70	Red silicone 70	Red silicone 70
Material dome	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic
Wire guard material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Max. solid connection terminals	2.5 mm²	2.5 mm²	2.5 mm²	2.5 mm²
Max. finely stranded connection terminals	2.5 mm²	2.5 mm²	2.5 mm²	2.5 mm²
Enclosure colour	Black	Black	Black	Black
Seal	O-ring seal	O-ring seal	O-ring seal	O-ring seal
Mounting / Installation				
Mounting part material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
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	2 x dust cap	2 x dust cap	2 x dust cap	2 x dust cap
You can find more technical data online at r-stahl.com . WebCode FL6SA				

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, long, stainless steel (available for FL6S, FX15, YA60, YL6S, YA6S, YL60)	247371	0.280	
	Adapter plate for pipe clamp fastening (available for FL6S, FX15, YL6S)	256519	0.630	
	Pipe clamp, R 1 1/2"	120819	0.470	
	Pipe clamp, R 1 1/4"	120812	0.500	
	Pipe clamp, R 2"	120823	0.500	

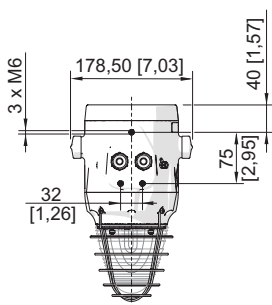
Spare Parts

Figure	Description	Art. No.	Weight kg
Fresnel lens			
	Fresnel lens blue replacement	292141	0.180
	Fresnel lens red replacement	292147	0.180
Lamp			
	Xenon lamp (available for FL6S, FX15, YL6S)	223636	0.006
PCB			
	Connection PCB (available for FL6S, FX15, YL6S)	223579	0.020
	Electronic PCB, 115 V AC, 5 J (available for FL6S, FX15, YL6S)	223632	0.118
	Electronic PCB, 230 V AC, 5 J (available for FL6S, FX15, YL6S)	223580	0.100
	Electronic PCB, 24 V DC, 5 J (available for FL6S, FX15, YL6S)	223635	0.080

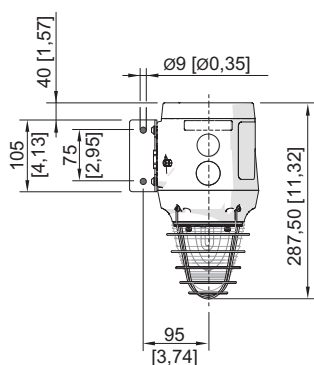
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



L-Bracket



GRP Visual Signal Series FL6S without L-Bracket



GRP Visual Signal Series FL6S with L-Bracket