

Indicator Lights

Signalleuchten

Voyants Lumineux





Solutions that fit!
Lösungen die passen!
Solutions justes!

We are specialized in setting up customized LED indicators lights according to your specifications. Our service includes:

- individual wire length
- special wires
- twisted wires
- crimp and solder connectors
- cable shoes
- tin plated terminals
- cable skinning
- heat shrink tubes
- marking or labeling
- packaging

Wir sind spezialisiert auf kunden-spezifische Ausführungen. Unsere Dienstleistung beinhaltet:

- Kabellänge auf Mass
- Spezialkabel
- verdrehte Kabel
- Press und Lötkontakte
- Kabelschuhe
- verzinnzte Anschlüsse
- Kabelbeschriftungen
- abschrumpfen
- Beschriftung und Markierung
- individuelle Verpackung

Nous sommes spécialisés pour fabriquer sur commande votre voyant individuel. Notre service inclus:

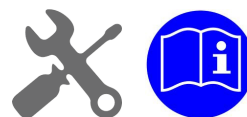
- longueur câble sur demande
- câble spécifique
- câble torsadé
- connection par prise ou par soudure
- système à cosses
- connecteurs étamés
- câble avec nomenclatures
- gaine thermorétractable
- marquage ou label
- emballage individuel

Challenge us with your requirements
Kontaktieren Sie uns mit Ihren Anforderungen
Contactez nous avec vos spécifications



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Flat indicator lights

Rotation-proof
Waterproof IP64 / IP67 / IP68

Flach-Leuchten

Verdrehsicher
Wasserdicht IP64 / IP67 / IP68

Voyants lumineux plats

Anti-rotation
Étanche IP64 / IP67 / IP68



3D Step-file
available on request



abgeflachte Seite = Kathode
flat side = cathode
côté plat = cathode

Series 343 / 344 / 348



3444S1G1G71NB

348811R1R50UB

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps			Accessories Zubehör Accessoires	Lens with.. Linse mit.. Lentille avec..	Light source Lichtquelle Source lum.	Voltage Spannung Tension				
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface			Fresnel	LED Ø 5mm	Code V mA				
343 LED terminals LED-Anschlüsse Fils des LED's	4 IP64	B Brass, blackened Messing, geschwärzt Laiton, noirci	1 5 Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305 	A1 Amber Orange	Y54U 7'000 mcd	Yellow Gelb Jaune	0 series 343, only available without resistor				
	7 IP67	S Brass, nickel plated Messing, vernickelt Laiton, nickelé		B1 Blue Blau Bleu	Y50U 3'000 mcd						
	8 IP68	5 Stainless steel Edelstahl Acier inoxydable		C1 Clear Klar Clair	Y501 500 mcd	B91G 9'000 mcd B21G 2'120 mcd B61G 1'160 mcd	Blue Blau Bleu	CL constant current driver only for series 344, 348 and only for single colour			
		6 Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci		G1 Green Grün Vert							
344 Faston 2.8 x 0.5		9 Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	 	R1 Red Rot Rouge	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert	CL1 constant current driver only for series 344, 348 and only for single colour				
				W3 White Weiss Blanc				R54U 7'000 mcd			
				348 Stranded wire Litze Fil multi-brins Ø 0.14mm² (AWG 26) Standard 100 mm Other lengths on request Andere Längen auf Anfrage Autres longueurs sur demande	4 IP64	1 Brass, blackened Messing, geschwärzt Laiton, noirci	1 5 Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305 	A1 Amber Orange	R50U 3'000 mcd	Red Rot Rouge	Z only for series 348*
					7 IP67	2 Brass, nickel plated Messing, vernickelt Laiton, nickelé		B1 Blue Blau Bleu	R521 80 mcd		
8 IP68	5 Stainless steel Edelstahl Acier inoxydable	C1 Clear Klar Claire	W55N 22'000 mcd		White Weiss Blanc	RGKW common cathode only series 343, 348 RGVW common anode only series 343, 348		Red-Green Rot-Grün Rouge-Vert			
	6 Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	G1 Green Grün Vert	W50N 2'320 mcd								
				R1 Red Rot Rouge							
				W3 White Weiss Blanc							

Operating Temperature -30° to +85°C / Storage Temperature: -40° to +100°C / 230V Operating Temperature -30° to +65°C

RoHS compliant / ** except surface option 9 (none RoHS)

Specifications are subject to change without notice

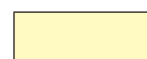
Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

different LED's of the SLOAN range can be built in

*refer to installation instructions for 230V version in chapter „G“

Réserve de modifications de toutes les données techniques

34..



Flat indicator lights

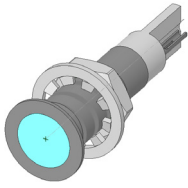
Flush-mounting
Not Watherproof

Flach-Leuchten

Oberflächenbündig montierbar
Nicht Wasserdicht

Voyants lumineux plats

Montage plat



3D Step-file
available on request



Series 193 / 194 / 198



194S018G1G51NB

198B118C1R30UB

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“										
Type / Typ / Type	Body / Körper / Corps	Wires Litzen Fils	Accessories Zubehör Accessoires	Lens with.. Linse mit.. Lentille avec..	Light source Lichtquelle Source lum.		Voltage Spannung Tension			
Terminals Anschlüsse Raccords	Surface Oberfläche Surface				Fresnel	LED Ø 3mm	Code	V	mA	
193 LED terminals LED-Anschlüsse Fils des LED's	B Brass, blackened Messing, geschwärzt Laiton, noirci	0 without series 193 + 194 ohne Serie 193 + 194 sans serie 193 + 194	1 	8	A1 Amber Orange 	Y33U 4'200 mcd		0	without ohne sans	
	S Brass, nickel plated Messing, vernickelt Laiton, nickelé				B1 Blue Blau Bleu 	Y30U 1'200 mcd				A 5 20
					C1 Clear Klar Clair	Y301 30 mcd				B 12 20
					G1 Green Grün Vert 	B71G 6'220 mcd				D 24 20
					R1 Red Rot Rouge 	B41G 1'160 mcd				E 28 20
194 Solder lugs Lötösen Contact à souder					W3 White Weiss Blanc 					
					G41N 17'600 mcd					
					G51N 10'320 mcd G301 40 mcd					
198 Stranded wire Litze Fil multi-brins Ø 0.14mm² (AWG 26) Standard 100mm Other lengths on request Andere Längen auf Anfrage Autres longueurs sur demande	B Brass, blackened Messing, geschwärzt Laiton, noirci	1 standard stranded wire only for series 198 standard Litze nur für Serie 198 Fil multi- brins seulement pour serie 198				R30U 5'500 mcd				
						R301 8 mcd R33U 2'500 mcd				
						W37N 13'350 mcd W36N 6'900 mcd W32N 3'745 mcd				

Operating Temperature -30° to +85°C / Storage Temperature: -40° to +100°C

different LED's of the SLOAN range can be built in

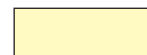
RoHS compliant

Specifications are subject to change without notice

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Réserve de modifications de toutes les données techniques

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3D Step-file
available on request



Indicator lights with reflector

Rotation-proof
Option: waterproof IP64 / IP67 / IP68

Signalleuchten mit Reflektor

Verdrehsicher
Option: wasserdicht IP64 / IP67 / IP68

Voyants lumineux avec réflecteur

Anti-rotation
Option: étanche IP64 / IP67 / IP68



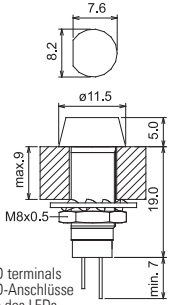
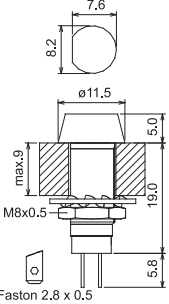
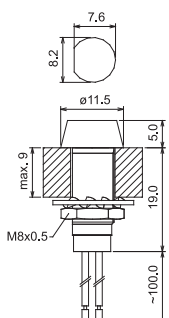
abgeflachte Seite = Kathode
flat side = cathode
côté plat = cathode



3348S1G501B



338821010Y501B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“											
Type / Typ / Type		Body / Körper / Corps		Accessories Zubehör Accessoires		Light source Lichtquelle Source lum.		Voltage Spannung Tension			
Terminals Anschlüsse Raccords		Protection Schutzart Protection	Surface Oberfläche Surface			LED Ø 5mm		Code	V	mA	
333 		4 IP64	B Brass, blackened Messing, geschwärzt Laiton, noirci	1 		Y54U 7'000 mcd	Yellow Gelb Jaune	0		without ohne sans	
		7 IP67	S Brass, nickel plated Messing, vernickelt Laiton, nickelé			Y50U 3'000 mcd			series 333, only available without resistor		
		8 IP68	5 Stainless steel Edelstahl Acier inoxydable	5 Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable		Y501 500 mcd		CL	29-48	20	
			6 Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci			B91G 9'000 mcd	Blue Blau Bleu		constant current driver		
			9 Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**			B21G 2'120 mcd			only for series 334, 338 and only for single colour		
334 						B61G 1'160 mcd		CL1	5-28	20	
						G81N 32'500 mcd	Green Grün Vert		constant current driver		
						G71N 6'500 mcd			only for series 334, 338 and only for single colour		
						G501 250 mcd			Z	230	2.5
						R54U 7'000 mcd	Red Rot Rouge		only for series 338*		
						R50U 3'000 mcd			other voltage and ranges on request.		
						R521 80 mcd					
Type / Typ / Type		Body / Körper / Corps		Accessories Zubehör Accessoires	Lenght Länge Longueur						
Terminals Anschlüsse Raccords		Protection Schutzart Protection	Surface Oberfläche Surface								
338 		4 IP64	1 Brass, blackened Messing, geschwärzt Laiton, noirci	1 	010	Standard 100 mm Other lengths on request Andere Längen auf Anfrage Autres longueurs sur demande					
		7 IP67	2 Brass, nickel plated Messing, vernickelt Laiton, nickelé								
		8 IP68	5 Stainless steel Edelstahl Acier inoxydable	5 Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable							
			6 Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci								
			9 Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**								
											



3D Step-file
available on request



134S10G301B

13811010G301B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires			Light source Lichtquelle Source lum.	Voltage Spannung Tension		
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface				LED Ø 3mm	Code	V	mA
134 	4 IP64	B Brass, blackened Messing, geschwärzt Laiton, noirci	1	0		Y33U 4'200 mcd Y30U 1'200 mcd Y301 30 mcd	0	without ohne sans	
	7 IP67	S Brass, nickel plated Messing, vernickelt Laiton, nickelé					A	5	20
	8 IP68						B	12	20
135 						B71G 6'220 mcd B41G 1'160 mcd	D	24	20
							E	28	20
						G41N 17'600 mcd G51N 10'320 mcd G301 40 mcd			
						R30U 5'500 mcd R301 8 mcd R33U 2'500 mcd			
Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Length Länge Longueur					
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface							
138 	4 IP64	1 Brass, blackened Messing, geschwärzt Laiton, noirci	1	010	Standard 100 mm Other lengths on request Andere Längen auf Anfrage Autres longueurs sur demande	W37N 13'350 mcd W36N 6'900 mcd W32N 3'745 mcd	White Weiss Blanc		
	7 IP67	2 Brass, nickel plated Messing, vernickelt Laiton, nickelé							
	8 IP68								

Operating Temperature: -30° to +85°C / Storage Temperature: -40° to +100°C

different LED's of the SLOAN range can be built in

RoHS compliant / ** except surface option 9 (none RoHS)

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

Indicator lights with reflector

rear mounting, rotation proof
Option: waterproof IP64 / IP67 / IP68

Signalleuchten mit Reflektor

von hinten montierbar, verdrehsicher
Option: wasserdicht IP64 / IP67 / IP68

Voyants lumineux avec réflecteur

montage par l'arrière, anti-rotation
Option: étanche IP64 / IP67 / IP68



3D Step-file
available on request



abgeflachte Seite = Kathode
flat side = cathode
côté plat = cathode



134R8V1NR301B 138R811N010Y301B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires			Light source Lichtquelle Source lum.	Voltage Spannung Tension						
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface				LED Ø 3mm	Code	V	mA				
133R LED terminals LED-Anschlüsse Fils des LEDs	4 IP64	U Brass, blackened Messing, geschwärzt Laiton, noirci	1 Lock washer Fächer- scheibe Rondelle de freinage	N Ornamen- tal nut Zierrmutter Écrou décoratif		Y33U 4'200 mcd Y30U 1'200 mcd Y301 30 mcd		0	without ohne sans				
	7 IP67							V Brass, nickel plated Messing, vernickelt Laiton, nickelé	 	 	A	5	20
	8 IP68										B	12	20
134R Solder lugs Lötösen Contact à souder			2 Ornamen- tal washer Zier- scheibe Rondelle décoratif			B71G 6'220 mcd B41G 1'160 mcd		D	24	20			
								E	28	20			
Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires		Lenght Länge Longueur								
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface											
138R Stranded wire Litze Fil multi-brins Ø 0.14mm² (AWG 26)	4 IP64	1 Brass, blackened Messing, geschwärzt Laiton, noirci	1 Lock washer Fächer- scheibe Rondelle de freinage	N Ornamen- tal nut Zierrmutter Écrou décoratif	010 Standard 100mm Other lengths on request Andere Längen auf Anfrage Autres longueurs sur demande	W37N 13'350 mcd W36N 6'900 mcd W32N 3'745 mcd							
	7 IP67							2 Brass, nickel plated Messing, vernickelt Laiton, nickelé	 	 			
	8 IP68										2 Ornamen- tal washer Zier- scheibe Rondelle décoratif		

Operating Temperature: -30° to +85°C / Storage Temperature: -40° to +100°C

different LED's of the SLOAN range can be built in

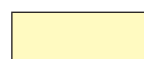
RoHS compliant / ** except surface option 9 (none RoHS)

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

13..R



Indicator lights with reflector

Rotation-proof
Option: waterproof IP64 / IP67 / IP68

Signalleuchten mit Reflektor

Verdrehsicher
Option: wasserdicht IP64 / IP67 / IP68

Voyants lumineux avec réflecteur

Anti-rotation
Option: étanche IP64 / IP67 / IP68



3D Step-file
available on request

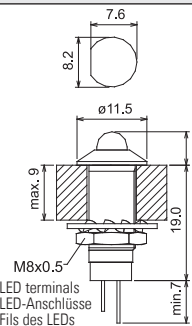
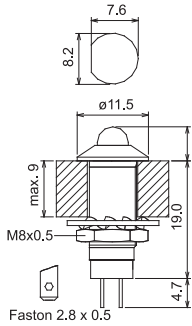


abgeflachte Seite = Kathode
flat side = cathode
côté plat = cathode



3548S1R521B

358811010Y501B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“																													
Type / Typ / Type		Body / Körper / Corps		Accessories Zubehör Accessoires		Light source Lichtquelle Source lum.		Voltage Spannung Tension																					
Terminals Anschlüsse Raccords		Protection Schutzart Protection	Surface Oberfläche Surface			LED Ø 5mm		Code	V mA																				
353		4	IP64	B	Brass, blackened Messing, geschwärzt Laiton, noirci	1		Y54U 7'000 mcd Y50U 3'000 mcd Y501 500 mcd	Yellow Gelb Jaune 	0	without ohne sans																		
		7	IP67	S	Brass, nickel plated Messing, vernickelt Laiton, nickelé					CL	series 353, only available without resistor	29-48	20																
		8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305							 	B91G 9'000 mcd B21G 2'120 mcd B61G 1'160 mcd	Blue Blau Bleu 	constant current driver only for series 354, 358 and only for single colour												
				6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**											CL1	5-28	20									
354												Z	230	2.5															
						8	IP68								5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour							
																							6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge 	only for series 358*													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton, olivebrun**	CL1	5-28	20																							
							8	IP68	5	Stainless steel Edelstahl Acier inoxydable	5	Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	 	G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd	Green Grün Vert 	constant current driver only for series 354, 358 and only for single colour													
6	Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci	9	Brass, olive drab** Messing, olivebraun** Laiton																										

Operating Temperature -30° to +85°C / Storage Temperature: -40° to +100°C / 230V Operating Temperature -30° to +65°C

RoHS compliant / ** except surface option 9 (none RoHS)

Specifications are subject to change without notice

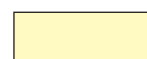
Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

different LED's of the SLOAN range can be built in

*refer to installation instructions for 230V version in chapter „G“

Réserve de modifications de toutes les données techniques

35..



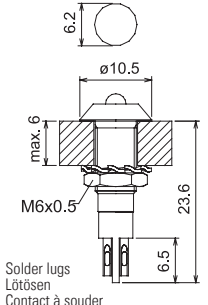
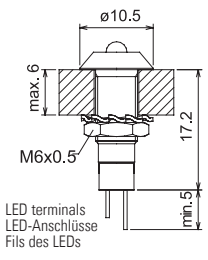
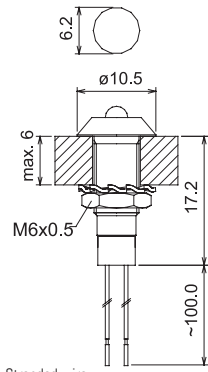


3D Step-file
available on request



1448S10G301B

148811010R301B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“									
Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires			Light source Lichtquelle Source lum.	Voltage Spannung Tension		
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface				LED Ø 3mm	Code	V	mA
144	4 IP64	B Brass, blackened Messing, geschwärzt Laiton, noirci	1 	0		Y33U 4'200 mcd Y30U 1'200 mcd Y301 30 mcd	Yellow Gelb Jaune	0	without ohne sans
	7 IP67	S Brass, nickel plated Messing, vernickelt Laiton, nickelé						A	5 20
	8 IP68							B	12 20
						B71G 6'220 mcd B41G 1'160 mcd	Blue Blau Bleu	D	24 20
								E	28 20
145						G41N 17'600 mcd G51N 10'320 mcd G301 40 mcd	Green Grün Vert		
									
						R30U 5'500 mcd R301 8 mcd R33U 2'500 mcd	Red Rot Rouge		
									
Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Lenght Länge Longueur					
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface							
148	4 IP64	1 Brass, blackened Messing, geschwärzt Laiton, noirci	1 	010	Standard 100 mm Andere Längen auf Anfrage Autres longueurs sur demande	W37N 13'350 mcd W36N 6'900 mcd W32N 3'745 mcd	White Weiss Blanc		
	7 IP67	2 Brass, nickel plated Messing, vernickelt Laiton, nickelé							
	8 IP68								

Operating Temperature -30° to +85°C / Storage Temperature: -40° to +100°C

different LED's of the SLOAN range can be built in

RoHS compliant / ** except surface option 9 (none RoHS)

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

14..

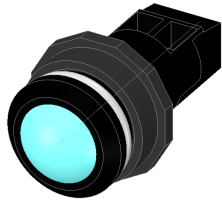
1

Indicator lights
Mounting diameter ø14mm
Waterproof IP65

Signalleuchten
Montageloch ø14mm
Wasserdicht IP65

Voyants Lumineux
Trou de montage ø14mm
Étanche IP65

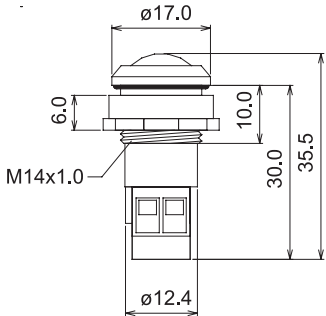
Series 941



3D Step-file
available on request



941YY0B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“										
Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Colour cap Farbkappe Capuchon de couleur	Light source Lichtquelle Source lum.		Voltage Spannung Tension			
	Surface Oberfläche Surface	Protection Schutzart Protection					Code	V	mA	
941  Screw terminals Schraubanschlüsse Contact à vis All versions also available as flashing units. Put a "F" for flashing at the end of the part-no. Alle Versionen auch blinkend erhältlich. Ergänzen Sie ein „F“ am Ende der Artikel-Nr. Version clignotante possible pour tous les modèles. Ajouter la lettre "F" à la fin du numéro d'article.	Material: ABS Black Material: ABS Schwarz Matériel: ABS Noir	IP65	Nut & O-Ring Mutter & O-Ring Ecrou & Joint 	B Blue Blau Bleu	B0 1 LED 3'000mcd 470nm	Blue Blau Bleu	B	12V AC/DC	20	
				G Green Grün Vert	G0 1 LED 3'000mcd 565nm	Green Grün Vert	D	24V AC/DC	20	
				R Red Rot Rouge	R0 1 LED 800mcd 660nm	Red Rot Rouge	Z	230V AC	3	
				W White Weiss Blanc	W0 1 LED 1'200mcd 6'500K	White Weiss Blanc				
				Y Yellow Gelb Jaune	Y0 1 LED 1'200mcd 585nm	Yellow Gelb Jaune				

Operating Temperature -25° to +55°C / Storage Temperature: -20° to +50°C

RoHS compliant

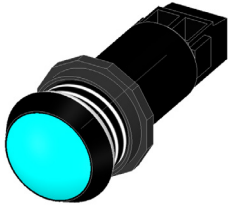
Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

941



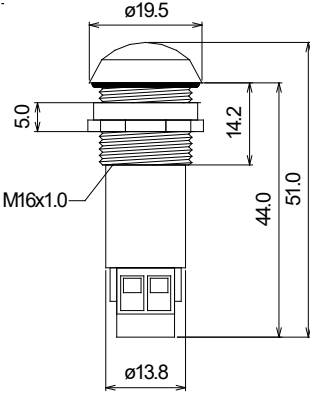


3D Step-file
available on request



943GG0B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Colour cap Farbkappe Capuchon de couleur	Light source Lichtquelle Source lum.		Voltage Spannung Tension		
	Surface Oberfläche Surface	Protection Schutzart Protection					Code	V	mA
943  Screw terminals Schraubanschlüsse Contact à vis All versions also available as flashing units. Put a "F" for flashing at the end of the part-no. Alle Versionen auch blinkend erhältlich. Ergänzen Sie ein „F“ am Ende der Artikel-Nr. Version clignotante possible pour tous les modèles. Ajouter la lettre "F" à la fin du numéro d'article.	Material: ABS Black Material: ABS Schwarz Matériel: ABS Noir	IP65	Nut & O-Ring Mutter & O-Ring Ecrou & Joint 	B Blue Blau Bleu	B0 1 LED 3'000mcd 470nm	Blue Blau Bleu	B	12V AC/DC	20
				G Green Grün Vert	G0 1 LED 3'000mcd 565nm	Green Grün Vert	D	24V AC/DC	20
				R Red Rot Rouge	R0 1 LED 800mcd 660nm	Red Rot Rouge	Z	230V AC	10
				W White Weiss Blanc	W0 1 LED 1'200mcd 6'500K	White Weiss Blanc			
				Y Yellow Gelb Jaune	Y0 1 LED 1'200mcd 585nm	Yellow Gelb Jaune			

Operating Temperature -25° to +55°C / Storage Temperature: -20° to +50°C

RoHS compliant

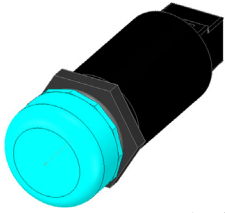
Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

943





3D Step-file
available on request



948BB3B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Colour cap Farbkappe Capuchon de couleur	Light source Lichtquelle Source lum.		Voltage Spannung Tension		
Screw terminals Schraubanschlüsse Contact à vis	Surface Oberfläche Surface	Protection Schutzart Protection						Code	V
948 Screw terminals Schraubanschlüsse Contact à vis All versions also available as flashing units. Put a "F" for flashing at the end of the part-no. Alle Versionen auch blinkend erhältlich. Ergänzen Sie ein „F“ am Ende der Artikel-Nr. Version clignotante possible pour tous les modèles. Ajouter la lettre "F" à la fin du numéro d'article.	Material: ABS Black Material: ABS Schwarz Matériel: ABS Noir	IP65	Nut & O-Ring Mutter & O-Ring Ecrou & Joint 	B Blue Blau Bleu <td> B3 2 LEDs 4'800mcd 470nm Blue Blau Bleu <td> B 12V AC/DC 20 </td></td>	B3 2 LEDs 4'800mcd 470nm Blue Blau Bleu <td> B 12V AC/DC 20 </td>	B 12V AC/DC 20			
	G Green Grün Vert	G0 2 LEDs 800mcd 565nm Green Grün Vert <td> D 24V AC/DC 20 </td>	D 24V AC/DC 20						
		G3 2 LEDs 21'000mcd 525nm Green Grün Vert <td> J 48V AC/DC 10 </td>	J 48V AC/DC 10						
	R Red Rot Rouge <td> R0 2 LEDs 3'000mcd 660nm Red Rot Rouge <td> X 115V AC 5 </td></td>	R0 2 LEDs 3'000mcd 660nm Red Rot Rouge <td> X 115V AC 5 </td>	X 115V AC 5						
	W White Weiss Blanc <td> W3 2 LEDs 22'000mcd 6'500K White Weiss Blanc <td rowspan="3"> Z 230V AC 20 </td></td>	W3 2 LEDs 22'000mcd 6'500K White Weiss Blanc <td rowspan="3"> Z 230V AC 20 </td>	Z 230V AC 20						
	Y Yellow Gelb Jaune	Y0 2 LEDs 250mcd 585nm Yellow Gelb Jaune							
		Y3 2 LEDs 8'700mcd 590nm Yellow Gelb Jaune							

Operating Temperature -25° to +55°C / Storage Temperature: -20° to +50°C

RoHS compliant

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

948



Indicator lights
Mounting diameter ø22mm
Waterproof IP65

Signalleuchten
Montageloch ø22mm
Wasserdicht IP65

Voyants Lumineux
Trou de montage ø22mm
Étanche IP65



3D Step-file
available on request



Series 951



951RROB

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Colour cap Farbkappe Capuchon de couleur	Light source Lichtquelle Source lum.		Voltage Spannung Tension		
	Surface Oberfläche Surface	Protection Schutzart Protection					Code	V	mA
951 Screw terminals Schraubanschlüsse Contact à vis All versions also available as flashing units. Put a "F" for flashing at the end of the part-no. Alle Versionen auch blinkend erhältlich. Ergänzen Sie ein „F“ am Ende der Artikel-Nr. Version clignotante possible pour tous les modèles. Ajouter la lettre "F" à la fin du numéro d'article.	Material: ABS Black Material: ABS Schwarz Matériel: ABS Noir	IP65	Nut & O-Ring Mutter & O-Ring Ecrou & Joint 	B Blue Blau Bleu	B3 4 LEDs 4'900mcd 470nm	Blue Blau Bleu	B	12V AC/DC	20
				G Green Grün Vert	G0 4 LEDs 800mcd 565nm	Green Grün Vert	D	24V AC/DC	20
					G3 4 LEDs 21'000mcd 525nm	Green Grün Vert	J	48V AC/DC	10
				R Red Rot Rouge	R0 4 LEDs 3'000mcd 660nm	Red Rot Rouge	X	115V AC	5
				W White Weiss Blanc	W3 4 LEDs 22'000mcd 6'500K	White Weiss Blanc	Z	230V AC	20
				Y Yellow Gelb Jaune	Y0 4 LEDs 250mcd 585nm	Yellow Gelb Jaune			
					Y3 4 LEDs 8'700mcd 590nm	Yellow Gelb Jaune			

Operating Temperature -25° to +55°C / Storage Temperature: -20° to +50°C

RoHS compliant

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

951





3D Step-file
available on request



955YY0B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“									
Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Colour cap Farbkappe Capuchon de couleur	Light source Lichtquelle Source lum.		Voltage Spannung Tension		
	Surface Oberfläche Surface	Protection Schutzart Protection					Code	V	mA
955 Screw terminals Schraubanschlüsse Contact à vis All versions also available as flashing units. Put a "F" for flashing at the end of the part-no. Alle Versionen auch blinkend erhältlich. Ergänzen Sie ein „F“ am Ende der Artikel-Nr. Version clignotante possible pour tous les modèles. Ajouter la lettre "F" à la fin du numéro d'article.	Material: ABS Black Material: ABS Schwarz Matériel: ABS Noir	IP65	Nut & O-Ring Mutter & O-Ring Ecrou & Joint 	B Blue Blau Bleu	B0 1 LED 3'000mcd 470nm	Blue Blau Bleu	B	12V AC/DC	20
				G Green Grün Vert	G0 1 LED 3'000mcd 565nm	Green Grün Vert	D	24V AC/DC	10
				R Red Rot Rouge	R0 1 LED 800mcd 660nm	Red Rot Rouge	J	48V AC/DC	10
				W White Weiss Blanc	W0 1 LED 1'000mcd 6'500K	White Weiss Blanc			
				Y Yellow Gelb Jaune	Y0 1 LED 800mcd 585nm	Yellow Gelb Jaune			

Operating Temperature -25° to +55°C / Storage Temperature: -20° to +50°C

RoHS compliant

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

955



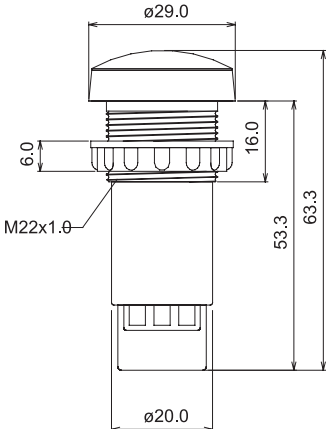


3D Step-file
available on request



956BB0B

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Colour cap Farbkappe Capuchon de couleur	Light source Lichtquelle Source lum.		Voltage Spannung Tension		
	Surface Oberfläche Surface	Protection Schutzart Protection					Code	V	mA
956  Screw terminals Schraubanschlüsse Contact à vis All versions also available as flashing units. Put a "F" for flashing at the end of the part-no. Alle Versionen auch blinkend erhältlich. Ergänzen Sie ein „F“ am Ende der Artikel-Nr. Version clignotante possible pour tous les modèles. Ajouter la lettre "F" à la fin du numéro d'article.	Material: ABS Black Material: ABS Schwarz Matériel: ABS Noir	IP65	Nut & O-Ring Mutter & O-Ring Ecrou & Joint 	B Blue Blau Bleu	B0 1 LED 3'000mcd 470nm	Blue Blau Bleu	B	12V AC/DC	20
				G Green Grün Vert	G0 1 LED 3'000mcd 565nm	Green Grün Vert	D	24V AC/DC	20
				R Red Rot Rouge	R0 1 LED 800mcd 660nm	Red Rot Rouge	Z	230V AC	20
				W White Weiss Blanc	W0 1 LED 1'000mcd 6'500K	White Weiss Blanc			
				Y Yellow Gelb Jaune	Y0 1 LED 800mcd 585nm	Yellow Gelb Jaune			

Operating Temperature -25° to +55°C / Storage Temperature: -20° to +50°C

RoHS compliant

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

956



Indicator lights with colour cap

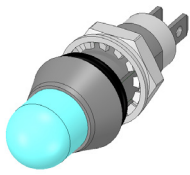
Rotation-proof
Option: waterproof IP64 / IP67 / IP68

Signalleuchten mit Farbkappen

Verdrehsicher
Option: wasserdicht IP64 / IP67 / IP68

Voyants lumineux avec capuchon

Anti-rotation
Option: étanche IP64 / IP67 / IP68



3D Step-file
available on request

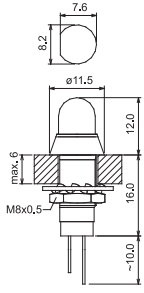
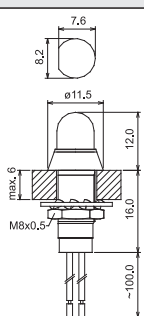


abgeflachte Seite = Kathode
flat side = cathode
côté plat = cathode



1781816A1Y50UB

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps	Accessories Zubehör Accessoires	Colour caps with.. Farbkappen mit.. Capuchons encreurs avec..	Light source Lichtquelle Source lum.	Voltage Spannung Tension
Terminals Anschlüsse Raccords	Surface Oberfläche Surface	Protection Schutzart Protection		LED Ø 5mm	Code V mA
174	B Brass, blackened Messing, geschwärzt Laiton, noirci S Brass, nickel plated Messing, vernickelt Laiton, nickelé 5 Stainless steel Edelstahl Acier inoxydable 6 Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci 9 Brass, olive drab** Messing, olivbraun** Laiton, olivebrun**	4 IP64 7 IP67 8 IP68	1  6  5  Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	Y54U 7'000 mcd Y50U 3'000 mcd Y501 500 mcd B91G 9'000 mcd B21G 2'120 mcd B61G 1'160 mcd G81N 32'500 mcd G71N 6'500 mcd G501 250 mcd R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	0 without ohne sans series 177 is only available without resistor CL constant current driver only for Series 174, 178 and only for single colour CL1 constant current driver only for Series 174, 178 and only for single colour Z 230 2.5 only for Series 178* other voltage and ranges on request.
177					
178	1 Brass, blackened Messing, geschwärzt Laiton, noirci 2 Brass, nickel plated Messing, vernickelt Laiton, nickelé 5 Stainless steel Edelstahl Acier inoxydable 6 Stainless steel, blackened Edelstahl, geschwärzt Acier inoxydable, noirci 9 Brass, olive drab** Messing, olivbraun** Laiton, olivebrun**	4 IP64 7 IP67 8 IP68	1  6  5  Stainless steel 1.4305 Edelstahl 1.4305 Acier inoxydable 1.4305	A1 Amber Orange B1 Blue Blau Bleu C1 Clear Klar Clair G1 Green Grün Vert R1 Red Rot Rouge W3 White Weiss Blanc	W55N 22'000 mcd W50N 2'320 mcd RGKW common cathode only series 177, 178 RGVW common anode only series 177, 178
Terminals Anschlüsse Raccords	Surface Oberfläche Surface	Protection Schutzart Protection			
178					
Stranded wire Litze Fil multi-brins Ø 0.14mm² (AWG 26)					

Operating Temperature -30° to +85°C / Storage Temperature: -40° to +100°C / 230V Operating Temperature -30° to +65°C

RoHS compliant / ** except surface option 9 (none RoHS)

Specifications are subject to change without notice

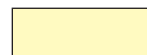
Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

different LED's of the SLOAN range can be built in

*refer to installation instructions for 230V version in chapter „G“

Réserve de modifications de toutes les données techniques

17..



Indicator lights with colour cap

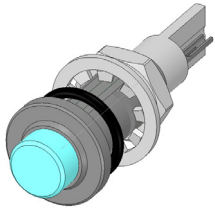
Rotation-proof
Option: waterproof IP64 / IP67 / IP68

Signalleuchten mit Farbkappen

Verdrehsicher
Option: wasserdicht IP64 / IP67 / IP68

Voyants lumineux avec capuchon

Anti-rotation
Option: étanche IP64 / IP67 / IP68



3D Step-file
available on request



abgeflachte Seite = Kathode
flat side = cathode
côté plat = cathode



1174S11R1R30UB

119411G1G51NB

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps	Accessories Zubehör Accessoires	Colour caps with.. Farbkappen mit.. Capuchons encreurs avec..	Light source Lichtquelle Source lum.	Voltage Spannung Tension
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface		LED Ø 3mm	Code V mA
117 Solder lugs Lötösen Contact à souder	4 IP64	B Brass, blackened Messing, geschwärzt Laiton, noirci	1 cylindrical zylindrisch cylindrique	A1 Amber Orange Orange	Y33U 4'200 mcd Yellow Gelb Jaune
	7 IP67	S Brass, nickel plated Messing, vernickelt Laiton, nickelé	flat	B1 Blue Blau Bleu	Y30U 1'200 mcd Y301 30 mcd
	8 IP68		6 domed gewölbt dôme	C1 Clear Klar Clair	B71G 6'220 mcd Blue Blau Bleu
			G1 Green Grün Vert	B41G 1'160 mcd	D 24 20
			R1 Red Rot Rouge	W3 White Weiss Blanc	E 28 20
				G41N 17'600 mcd G51N 10'320 mcd G301 40 mcd	
				R30U 5'500 mcd R301 8 mcd R33U 2'500 mcd	
				W37N 13'350 mcd W36N 6'900 mcd W32N 3'745 mcd	
119 Stranded wire Litze Fil multi-brins Ø 0.14mm² (AWG 26) Standard 100 mm Other lengths on request Andere Längen auf Anfrage Autres longueurs sur demande	4 IP64	1 Brass, blackened Messing, geschwärzt Laiton, noirci			
	7 IP67	2 Brass, nickel plated Messing, vernickelt Laiton, nickelé			
	8 IP68				

Operating Temperature -30° to +85°C / Storage Temperature: -40° to +100°C

different LED's of the SLOAN range can be built in

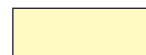
RoHS compliant / ** except surface option 9 (none RoHS)

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

11..





3D Step-file
available on request



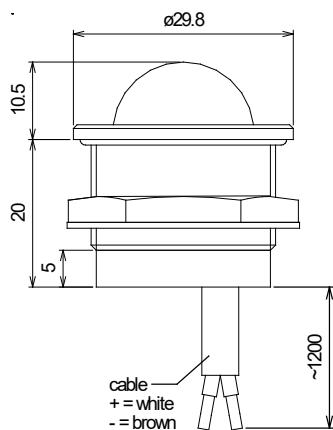
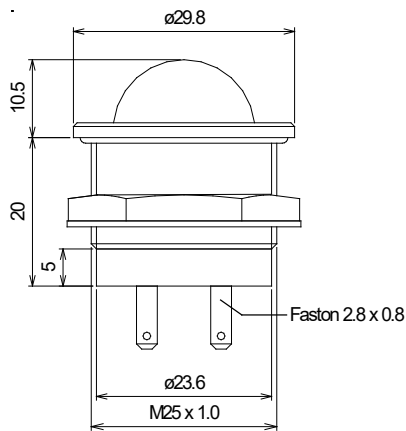
962BBFR



962BSKG

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type Typ Type	Voltage Spannung Tension	Body Körper Corps	Terminals Anschlüsse Raccords	Colour Farbe Couleurs
962	B 12V DC	S silver anodized aluminium casing silber eloxiertes Aluminiumgehäuse argent anodisé boîtier en alu	F Faston 2,8 x 0,8 mm	Y Yellow Gelb Jaune 
	D 24V DC	B black anodized aluminium casing schwarz eloxiertes Aluminiumgehäuse noir anodisé boîtier en alu	K cable 1,2 m long Kabel 1,2 m lang cable 1,2 m long	B Blue Blau Bleu 
				G Green Grün Vert 
				R Red Rot Rouge 
				W White Weiss Blanc 



Operating Temperature: -30° to +85°C / Storage Temperature: -40° to +100°C

RoHS compliant

Specifications are subject to change without notice

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Réserve de modifications de toutes les données techniques

962



Indicator lights with colour cap

Front-exchangable lightsource
(LED with midget flange base)

Signalleuchten mit Farbkappen

Lichtquelle von vorne auswechselbar
(LED mit Midget-Flange Sockel)

Voyants lumineux avec capuchon

Source lumineuse remplacement frontal
(LED avec culot midget flange)

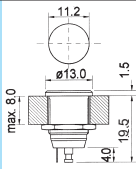


3D Step-file
available on request



Series 876 / 877

Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“

Type / Typ / Type	Body / Körper / Corps		Accessories Zubehör Accessoires	Colour caps with.. Farbkappen mit.. Capuchons de couleur avec..		Light source Lichtquelle Source lum.	Voltage Spannung Tension		
				Style Stil Style	Colour Farbe Couleurs		Code	V	mA
Terminals Anschlüsse Raccords	Protection Schutzart Protection	Surface Oberfläche Surface				LED Ø 5mm Midget-Flange			
87.. 	6 Not waterproof Nicht wasserdicht Non étanche	0 Standard execution Standard Ausführung Exécution standarde	0 without body, only cap ohne Körper, nur Köpchen sans corps, seulement la calotte	0 	0 without cap, only body ohne Köpchen, nur Körper sans calotte, seulement le corps	0 without cap, only body ohne Köpchen, nur Körper sans calotte, seulement le corps	0 without ohne sans	0 without ohne sans	
	7 Waterproof Wasserdicht Étanche IP64			1 			Y54U 7'000 mcd Y50U 3'000 mcd Y501 80 mcd	Yellow Gelb Jaune	A 5 20
					G 	A1 Amber Orange Orange	B91G 9'000 mcd B21G 2'120 mcd B61G 1'160 mcd	Blue Blau Bleu	B 12 20
					H 	C1 Clear Klar Clair			M 24 16
					G1 Green Grün Vert				N 28 14
					J 	R1 Red Rot Rouge	G81N 32'500 mcd G71N 5'620 mcd G501 80 mcd	Green Grün Vert	
					W3 White Weiss Blanc				
				K 			R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge	
							W55N 22'000 mcd W50N 2'320 mcd	White Weiss Blanc	

Operating Temperature -30° to +80°C / Storage Temperature: -40° to +100°C

different LED's of the SLOAN range can be built in

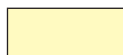
RoHS compliant

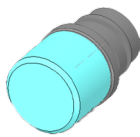
Specifications are subject to change without notice

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Réserve de modifications de toutes les données techniques

87..

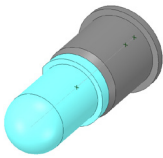




3D Step-file
available on request



Type Type Type	Colour caps Farbkappen Capuchons encresurs				
876 877 886 887					
	Black anodized aluminium shroud Schwarz eloxierte Aluminium-Hülse Douille en alumin. anodisée noir	Colourless anodized aluminium shroud Farblos eloxierte Aluminium-Hülse Douille en alumin. anodisée incolore	Black anodized aluminium shroud Schwarz eloxierte Aluminium-Hülse Douille en alumin. anodisée noir	Colourless anodized aluminium shroud Farblos eloxierte Aluminium-Hülse Douille en alumin. anodisée incolore	
	8x6000GG1 8x7000GG1 (with O-ring)	8x6000HW3 8x7000HW3 (with O-ring)	8x6000JR1 8x7000JR1 (with O-ring)	8x6000KA1 8x7000KA1 (with O-ring)	
Style Form Forme	G	H	J	K	



3D Step-file
available on request



Further specifications and options in section „F-H“ / Weitere Spezifikationen und Optionen in Kapitel „F-H“ / Autres spécifications et options au chapitre „F-H“						
Type / Typ / Type		Light source Lichtquelle Source lum.		Voltage Spannung Tension		Polarity Polarität Polarité
Terminals Anschlüsse Raccords		LED Ø 5mm Midget-Flange		Code	V	
MF		Y54U 7'000 mcd Y50U 3'000 mcd Y501 80 mcd	Yellow Gelb Jaune	0	without ohne sans	01 Plus (+) = Centercontact Mittelkontakt Contact central
				A	5	
				B	12	02 Minus (-) = Centercontact Mittelkontakt Contact central
		B91G 9'000 mcd B21G 2'120 mcd B61G 1'160 mcd	Blue Blau Bleu	M	24	
				N	28	
		G81N 32'500 mcd G71N 5'620 mcd G501 80 mcd	Green Grün Vert			
		R54U 7'000 mcd R50U 3'000 mcd R521 80 mcd	Red Rot Rouge			
		W55N 22'000 mcd W50N 2'320 mcd	White Weiss Blanc			

Operating Temperature -30° to +85°C / Storage Temperature: -40° to +100°C

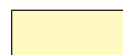
RoHS compliant

Specifications are subject to change without notice

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Réserve de modifications de toutes les données techniques

MF



Specifications 3mm LEDs

Spezifikationen 3mm LEDs

Spécifications 3mm LEDs

Yellow LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-233Y-00011	Y33U	592	2'100	4'200	-	14°	2.25	2.60	
	SLO-233Y-00003	Y30U	592	600	1'200	-	40°	2.00	2.40	waterclear
	SLO-233Y-00005	Y301	585	-	30	-	35°	2.10	2.60	diffused
Amber LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-233A-00003	A301	635	-	40	-	40°	2.00	2.60	diffused
Blue LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-233B-00004	B71G	470	4'400	6'220	8'750	15°	3.20	3.50	
	SLO-233B-00003	B41G	462	1'380	2'500	2'760	30°	3.20	3.50	waterclear
Green LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-233G-00014	B41N	522	17'600	26'000	34'800	15°	3.20	3.60	
	SLO-233G-00015	B51N	522	7'400	10'800	14'800	30°	3.20	3.50	
	SLO-233G-00006	B301	568	22	-	55	50°	2.20	2.60	diffused
Red LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-233R-00004	R30U	635	2'800	5'500	-	40°	2.25	2.60	
	SLO-233R-00005	R301	700	-	8	-	35°	2.20	2.60	
	SLO-233R-00015	R33U								diffused
White LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-233W-00004	W37N	5'500 - 9'000	9'480	12'900	18'960	20°	3.20	3.50	
	SLO-233W-00002	W36N	5'500 - 9'000	4'610	6'200	9'220	50°	3.20	3.50	
	SLO-233W-00001	W32N	5'500 - 9'000	2'520	3'400	5'040	60°	3.20	3.50	diffused

Specifications 5mm LEDs

Spezifikationen 5mm LEDs

Spécifications 5mm LEDs

Yellow LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-234Y-00012	Y54U	593	12'000	-	27'300	15°	2.10	2.40	
	SLO-234Y-00005	Y50U	591	3'000	5'500	-	40°	2.10	2.50	
SLO-234Y-00007	Y501	591	200	500	-	40°	1.90	2.40		
Blue LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-234B-00010	B91G	465	4'880	9'300	13'950	15°	3.20	3.50	
	SLO-234B-00005	B21G	475	3'010	4'700	6'020	30°	3.20	3.50	
SLO-234B-00008	B61G	465	1'150	-	2'500	45°	3.20	3.60		
Green LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-234G-00024	G81N	525	21'650	37'700	43'300	15°	3.20	3.50	
	SLO-234G-00021	G71N	523	3'320	6'500	9'200	45°	3.20	3.50	
SLO-234G-00009	G501	574	80	250	-	44°	2.40	2.80		
Red LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-234R-00015	R54U	635	12'000	-	27'300	15°	2.10	2.40	
	SLO-234R-00006	R50U	627	2'500	3'200	5'500	30°	2.20	2.50	
SLO-234R-00014	R521	635	50	80	-	22°	2.00	2.60		
White LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-234W-00006	W55N	5'500 - 9'000	22'000	27'000	44'000	20°	3.20	3.50	
SLO-234W-00001	W50N	5'500 - 9'000	1'610	2'380	3'220	65°	3.20	3.50		
Red/Green LEDs 	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-2360-00009	RG5F	627 (red) 565 (green)	6 12	13 29	- -	60°	2.00 2.20	2.50 2.50	
	Electro-Optical-Characteristics Ta=25°C, IF=20mA									Lens colour
	Part-no.	Old part-no.	Peak Wavelength (nm)	Luminous Intensity (mcd)			Viewing angle 2Θ1/2	Forward Voltage VF (V)		
				min.	typ.	max.		typ.	max.	
	SLO-2360-00006	RGKW common cathode	645 (red) 674 (green)	80 80	198 178	- -	60°	1.95 2.10	2.50 2.50	
	SLO-2360-00007	RGVW common anode	660 (red) 565 (green)	600 80	1'195 198	- -	24°	1.85 2.20	2.50 2.50	

Specifications indicator lights

Spezifikationen Signalleuchten

Spécifications Voyants lumineux

343, 344, 348

Body	- Bright nickel plated, blackened or olive drap chromized brass, stainless steel 1.4305, stainless steel blackened 1.4305	Körper	- Messing glanzvernickelt, geschwärzt oder braunoliv chromatiert, Edelstahl 1.4305, Edelstahl geschwärzt 1.4305	Corps	- Laiton nickelé brillant, noirci ou olivebrun chomé Acier inoxydable 1.4305 Acier inoxydable noircie 1.4305
Caps	- PC	Käppchen	- PC	Cabochons	- PC
Terminals	- Type 343: LED - Type 344: Faston connectors 2.8 x 0.5 tin plated brass - Type 348: Stranded wire 0.14mm ²	Anschlüsse	- Type 343: LED - Type 344: Faston Steck-Verbindung 2.8 x 0.5 Messing verzinkt Litzen 0.14mm ²	Raccords	- Type 343: LED - Type 344: Connecteurs Faston 2.8 x 0.5 laiton étamé - Type 348: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 1 Nm	Drehmoment	- 1 Nm	Couple de rotation	- 1 Nm
Rotation-proof	- flat side = cathode	Verdrehschutz	- abgeflachte Seite = Kathode	Anti-rotation	- côté plat = cathode

193, 194, 198

Body	- Bright nickel plated or blackened brass	Körper	- Messing glanzvernickelt oder geschwärzt	Corps	- Laiton nickelé brillant ou noirci
Caps	- PC	Käppchen	- PC	Cabochons	- PC
Terminals	- Type 193: LED - Type 194: Solder lugs, tin plated Ms - Type 198: Stranded wire 0.14mm ²	Anschlüsse	- Typ 193: LED - Typ 194: Lötösen, Ms verzinkt Litzen 0.14mm ²	Raccords	- Type 193: LED - Type 194: à souder, Ms étamé - Type 198: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 0.7 Nm	Drehmoment	- 0.7 Nm	Couple de rotation	- 0.7 Nm

333, 334, 338

Body	- Bright nickel plated, blackened or olive drap chromized brass, stainless steel 1.4305, stainless steel blackened 1.4305	Körper	- Messing glanzvernickelt, geschwärzt oder braunoliv chromatiert, Edelstahl 1.4305, Edelstahl geschwärzt 1.4305	Corps	- Laiton nickelé brillant, noirci ou olivebrun chomé Acier inoxydable 1.4305 Acier inoxydable noircie 1.4305
Terminals	- Type 333: LED - Type 334: Faston connectors 2.8 x 0.5 tin plated brass - Type 338: Stranded wire 0.14mm ²	Anschlüsse	- Typ 333: LED - Typ 334: Faston Steck-Verbindung 2.8 x 0.5 Messing verzinkt Litzen 0.14mm ²	Raccords	- Type 333: LED - Type 334: Connecteurs Faston 2.8 x 0.5 laiton étamé - Type 338: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 1 Nm	Drehmoment	- 1 Nm	Couple de rotation	- 1 Nm
Rotation-proof	- flat side = cathode	Verdrehschutz	- abgeflachte Seite = Kathode	Anti-rotation	- côté plat = cathode

134, 135, 138

Body	- Bright nickel plated or blackened brass,	Körper	- Messing glanzvernickelt, geschwärzt oder	Corps	- Laiton nickelé brillant ou noirci,
Terminals	- Type 134: Solder lugs, tin plated brass - Type 135: LED - Type 138: Stranded wire 0.14mm ²	Anschlüsse	- Typ 134: Lötösen, Messing verzinkt - Typ 135: LED - Typ 138: Litzen 0.14mm ²	Raccords	- Type 134: contacts à souder - Type 135: LED - Type 138: Fil multi-brins 0.14mm ²
Light pipe	- PA 6.6	Isolierkörper	- PS 6.6	Corps d'isol.	- PA 6.6
Insulating body	- PA 6.6	Drehmoment	- 0.7 Nm	Couple de rotation	- 0.7 Nm
Torque	- 0.7 Nm				

133R, 134R, 138R

Body	- Bright nickel plated or blackened brass,	Körper	- Messing glanzvernickelt oder geschwärzt,	Corps	- Laiton nickelé brillant ou noirci,
Terminals	- Type 133R: LED - Type 134R: Solder lugs, tin plated - Type 138R: Stranded wire 0.14mm ²	Anschlüsse	- Typ 133R: LED - Typ 134R: Lötösen, verzinkt - Typ 138R: Litzen 0.14mm ²	Raccords	- Type 133R: LED - Type 134R: contacts à souder, étamé - Type 138R: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 0.7 Nm	Drehmoment	- 0.7 Nm	Couple de rotation	- 0.7 Nm
Rotation-proof	- flat side = cathode	Verdrehschutz	- abgeflachte Seite = Kathode	Anti-rotation	- côté plat = cathode

353, 354, 358

Body	- Bright nickel plated, blackened or olive drap chromized brass, stainless steel 1.4305, stainless steel blackened 1.4305	Körper	- Messing glanzvernickelt, geschwärzt oder braunoliv chromatiert, Edelstahl 1.4305, Edelstahl geschwärzt 1.4305	Corps	- Laiton nickelé brillant, noirci ou olivebrun chomé Acier inoxydable 1.4305 Acier inoxydable noircie 1.4305
Terminals	- Type 353: LED - Type 354: Faston connectors 2.8 x 0.5 tin plated brass - Type 358: Stranded wire 0.14mm ²	Anschlüsse	- Typ 353: LED - Typ 354: Faston Steck-Verbindung 2.8 x 0.5 Messing verzinkt Litzen 0.14mm ²	Raccords	- Type 353: LED - Type 354: Connecteurs Faston 2.8 x 0.5 laiton étamé - Type 358: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 1 Nm	Drehmoment	- 1 Nm	Couple de rotation	- 1 Nm
Rotation-proof	- flat side = cathode	Verdrehschutz	- abgeflachte Seite = Kathode	Anti-rotation	- côté plat = cathode

Specifications indicator lights

Spezifikationen Signalleuchten

Spécifications Voyants lumineux

144, 145, 148

Body	- Bright nickel plated or blackened brass.	Körper	- Messing glanzvernickelt oder geschwärzt,	Corps	- Laiton nickelé brillant ou noirci,
Terminals	- Type 144: Solder lugs, tin plated brass	Anschlüsse	- Typ 144: Lötösen, Messing verzinkt	Raccords	- Type 144: contacts à souder
	- Type 145: LED		- Typ 145: LED		- Type 145: LED
	- Type 148: Stranded wire 0.14mm ²		- Typ 148: Litzen 0.14mm ²		- Type 148: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 0.7 Nm	Drehmoment	- 0.7 Nm	Couple de rotation	- 0.7 Nm

941, 943, 948, 951, 955, 956

Body	- Cyclocac S157 ABS, V0-1.6	Körper	- Cyclocac S157 ABS, V0-1.6	Corps	- Cyclocac S157 ABS, V0-1.6
Caps	- PC, Lexan 141R (clear)/143R (coloured), V2/1,5	Käppchen	- PC, Lexan 141R (klar)/143R (farbig), V2/1,5	Cabochons	- PC, Lexan 141R (clair)/143R (coloré), V2/1,5
Torque	- 0.2 Nm (Types 941/943/948/951/955/956)	Drehmoment	- 0.2 Nm (Typen 941/943/948/951/955/956)	Couple de rotation	- 0.2 Nm (Types 941/943/948/951/955/956)

174, 177, 178

Body	- Bright nickel plated, blackened or stainless steel 1.4305	Körper	- Messing glanzvernickelt, geschwärzt oder Edelstahl 1.4305	Corps	- Laiton nickelé brillant, noirci ou Acier inoxydable 1.4305
Caps	- PC	Käppchen	- PC	Cabochons	- PC
Terminals	- Type 174: Faston connectors 2.8 x 0.5 tin plated brass	Anschlüsse	- Typ 174: Faston Steck-Verbindung 2.8 x 0.5 Messing verzinkt	Raccords	- Type 174: Connecteurs Faston 2.8 x 0.5 laiton étamé
	- Type 177: LED		- Typ 177: LED		- Type 177: LED
	- Type 178: Stranded wire 0.14mm ²		- Typ 178: Litzen 0.14mm ²		- Type 178: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 1 Nm	Drehmoment	- 1 Nm	Couple de rotation	- 1 Nm
Rotation-proof	- flat side = cathode	Verdrehschutz	- abgeflachte Seite = Kathode	Anti-rotation	- côté plat = cathode

117, 119

Body	- Bright nickel plated, blackened brass, olive drap chromized	Körper	- Messing glanzvernickelt, geschwärzt, braunoliv chromatiert	Corps	- Laiton nickelé brillant, noirci, olivebrun chromé
Caps	- PC	Käppchen	- PC	Cabochons	- PC
Terminals	- Type 117: Solder lugs, tin plated brass	Anschlüsse	- Typ 117: Lötösen, Messing verzinkt	Raccords	- Type 117: contacts à souder, laiton étamé
	- Type 119: Stranded wire 0.14mm ²		- Typ 119: Litzen 0.14mm ²		- Type 119: Fil multi-brins 0.14mm ²
Insulating body	- PA 6.6	Isolierkörper	- PA 6.6	Corps d'isol.	- PA 6.6
Torque	- 0.7 Nm	Drehmoment	- 0.7 Nm	Couple de rotation	- 0.7 Nm
Rotation-proof	- flat side = cathode	Verdrehschutz	- abgeflachte Seite = Kathode	Anti-rotation	- côté plat = cathode

962

Technology	- LED Technology	Technologie	- LED-Technologie	Corps	- Laiton nickelé brillant, noirci
Lifetime	- half-life 50'000 h	Lebensdauer	- Halbwertszeit von 50'000 h	Durée de vie	- demie-vie 50'000 h
Special	- vandal proof	Speziell	- vandalensicher	Spécial	- résistante au vandalisme
Torque	- 2 Nm	Drehmoment	- 2 Nm	Couple de rotation	- 2 Nm

876, 877, 886, 887

Body	- Bright nickel plated or blackened brass	Körper	- Messing glanzvernickelt oder geschwärzt	Corps	- Laiton nickelé brillant ou noirci
Caps	- Metal part: bright nickel plated or blackened brass	Käppchen	- Metallteil: Messing glanzvernickelt oder geschwärzt	Cabochons	- Partie métallique: Laiton nickelé brillant ou noirci
	- Shroud: clear or black anodized aluminium		- Hülse: Aluminium, farblos oder schwarz eloxiert		- Douille: aluminium, anodisé incolore ou noir
Applications	- Lens: PC	Anwendungen	- Linse: PC	Applications	- Lentille: PC
	- Types V and W for cockpit panels etc.		- Typen V und W z.B. auf Instrumentenbrettern in Pilotenkäben, etc.		- Types V et W pour tableau de bord etc.
Lamp	- Filament lamps T1 $\frac{3}{4}$ -MF	Lampe	- Glühlampen T1 $\frac{3}{4}$ -MF	Lampe	- Lampes à filament T1 $\frac{3}{4}$ -MF
Terminals	- LED T1 $\frac{3}{4}$ -MF Lampe	Anschlüsse	- LED T1 $\frac{3}{4}$ -MF	Raccords	- LED T1 $\frac{3}{4}$ -MF
	- Centre contact: tin plated		- Mittelkontakt: Messing, verzinn		- Contact central: Ms. étamé
	- Side contact: tin plated beryllium bronze		- Seitenkontakt: Beryllium Bronze, verzinkt		- Contact latéral: Bronze au beryllium, revêtement étamé
Torque 87x	- 1.2 Nm	Drehmoment 87x	- 1.2 Nm	Couple de rota. 87x	- 1.2 Nm
Torque 88x	- 1.5 Nm	Drehmoment 88x	- 1.5 Nm	Couple de rota. 88x	- 1.5 Nm

Options, on request

Body	- Different material
Caps	- Metal part: Different material
	- Stamped symbols on flat caps available
LED	- Flashing
Terminals	- Centre and side contact: gold plated
Torque 87x	- 1.2 Nm
Torque 88x	- 1.5 Nm

Optionen, auf Anfrage

Körper	- Anderes Material
Käppchen	- Metallteil: Anderes Material
	- Druck von Symbolen auf flache Käppchen möglich
LED	- Blinkend
Anschlüsse	- Mittel- und Seitenkontakt vergoldet
Torque 87x	- 1.2 Nm
Drehmoment 88x	- 1.5 Nm

Options, sur demande

Corps	- Matériel différent
Cabochons	- Partie métallique: Matériel différent
	- Impression de symboles sur les cabochons plats possible
LED	- Clignotant
Raccords	- Contact central et latéral doré
Couple de rota. 87x	- 1.2 Nm
Couple de rota. 88x	- 1.5 Nm

Specifications indicator lights

Spezifikationen Signalleuchten

Spécifications Voyants lumineux

Protection degrees:

Schutzgrad:

Protection:

IP 64

Protection against splashwater from the front

Schutz gegen Spritzwasser von vorne

Protection contre les éclaboussures d'eau frontales

IP 65

Protection against water jets

Schutz gegen Strahlwasser

Protection contre les jets d'eau

IP 67

Protection for temporary submersion in water without pressure

Schutz bei zeitweiligen Untertauchen in Wasser ohne Druck

Appropriée pour usage temporairement dans l'eau sans pression

IP 68

Protection underwater at pressure 1 bar

Schutz Unterwasser bei 1 bar Druck

Protection sous l'eau à 1 bar de pression

Stranded wire cross-section:

Litzen Querschnitt:

Section transversale du brin:

Ø 0.14mm² (AWG 26)

Ø 0.14mm² (AWG 26)

Ø 0.14mm² (AWG 26)

Installation instructions for 230V indicator lights

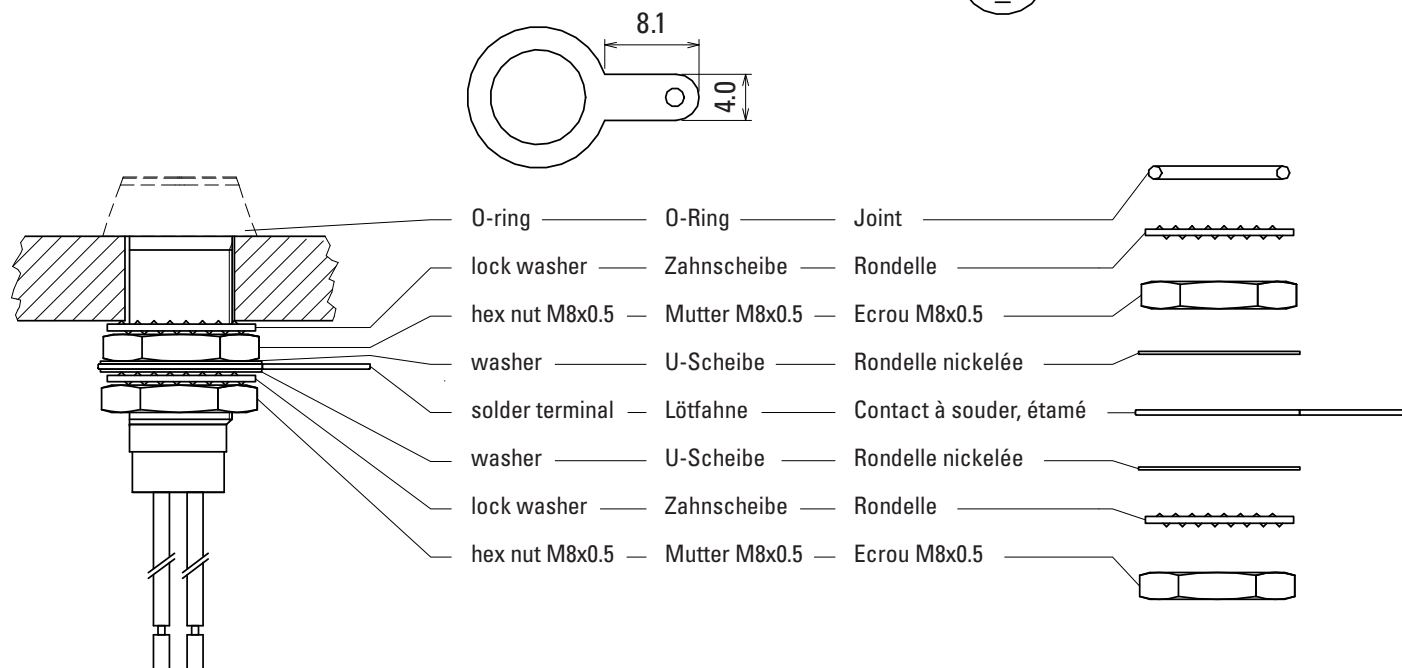
Installationsanleitung für 230V Signalleuchten

Instruction d'installation pour les 230V voyants lumineux

IEC/EN61000-6-2
IEC/EN61000-6-3

Series/Serien/Séries:
348, 338, 358, 178

ground terminal: / Erdungsanschluss: / Connection à la Terre:



For safety reasons the components have to be assembled as shown above. Noncompliance may cause injury and result in death. Only instructed and technically educated persons are allowed to install these 230V signal lamps.

Aus Sicherheitsgründen ist die Reihenfolge der einzelnen Bauteile bei der Montage einzuhalten. Nichtbeachtung kann zu Verletzungen und Schäden mit tödlichen Folgen führen. Die Montage und Installation dieser 230V Signalleuchten darf nur durch technisch ausgebildete und instruierte Personen ausgeführt werden.

Pour des raisons de sécurité veuillez suivre impérativement les instructions de montage des différentes pièces. Si les instructions ne sont pas suivies cela peut entraîner des conséquences graves et mortelles. Le montage et l'installation de ces 230V voyants peuvent se faire uniquement par des personnes qualifiées.

Accessories/Spare Parts

Zubehör/Ersatzteile

Accessoires/Pièce de rechange

343, 344, 348 / 333, 334, 338 / 353, 354, 358 / 174, 177, 178

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-4210-00002	M8 x 0.5	Nut, nickelplated brass	Mutter, Messing vernickelt	Ecrou, laiton nickelé
	SLO-1211-00005	ø 8	Lockwasher, nickelplated brass	Fächerscheibe, Messing vernickelt	Rondelle dentelée, laiton nickelé
	SLO-4210-00010	M8 x 0.5	Nut, stainless steel	Mutter, rostfreier Stahl	Ecrou, acier inoxydable
	SLO-1210-00002	ø 8	Lockwasher, stainless steel	Fächerscheibe, rostfreier Stahl	Rondelle dentelée, acier inoxydable
	SLO-1810-00005	ø 8	O-ring	O-ring	Bague d'étanchéité
	SLO-1230-00001	ø 8	Solder Terminal, tinned brass	Lötfahne, Messing verzinkt	Contact à souder, étamé
	SLO-1202-00001	ø 8	Washer, steel zinc plated	U-Scheibe, Stahl verzinkt	Rondelle, acier galvanisé
	SLO-1801-00002		Holder for 3mm LEDs	Halter für 3mm LEDs	Détendeur pour 3mm LED
	SLO-1801-00001		Holder for SMD LED	Halter für SMD LEDs	Détendeur pour SMD LED

193, 194, 198

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-4210-00003	M6 x 0.5	Nut, nickelplated brass	Mutter, Messing vernickelt	Ecrou, laiton nickelé
	SLO-1211-00003	ø 6	Lockwasher, nickelplated brass	Fächerscheibe, Messing vernickelt	Rondelle dentelée, laiton nickelé

134, 135, 138 / 144, 145, 148 / 117, 119

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-4210-00003	M6 x 0.5	Nut, nickelplated brass	Mutter, Messing vernickelt	Ecrou, laiton nickelé
	SLO-1211-00003	ø 6	Lockwasher, steel zinc plated	Fächerscheibe, Stahl verzinkt	Rondelle dentelée, acier galvanisé
	SLO-1810-00003	ø 6	O-ring	O-Ring	Bague d'étanchéité

133R, 134R, 138R

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-4210-00003	M6 x 0.5	Nut, nickelplated brass	Mutter, Messing vernickelt	Ecrou, laiton nickelé
	SLO-4210-00008	M6 x 0.5	Decorative Nut, nickelplated brass	Zierrmutter, Messing vernickelt	Ecrou décoratif, laiton nickelé
	SLO-4210-00009	M6 x 0.5	Decorative Nut, blackened brass	Zierrmutter, Messing geschwärzt	Ecrou décoratif, laiton noirci
	SLO-1214-00005	ø 6	Lockwasher, steel zinc plated	Fächerscheibe, Stahl verzinkt	Rondelle dentelée, acier galvanisé
	SLO-1214-00001	ø 6	Lockwasher, steel zinc plated blackened	Fächerscheibe, Stahl verzinkt, geschwärzt	Rondelle dentelée, acier galvanisé, noirci
	SLO-1203-00001	ø 6	Decorative washer, blackened brass	Zierscheibe, Messing geschwärzt	Rondelle décorative, laiton noirci
	SLO-1810-00004	ø 6	O-ring	O-Ring	Bague d'étanchéité

Accessories/Spare Parts

Zubehör/Ersatzteile

Accessoires/Pièce de rechange

941

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-1130-00002	M14 x 1.0	Nut	Mutter	Ecrou
	SLO-1810-00011	ø 14	O-ring	O-Ring	Bague d'étanchéité

943

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-1130-00003	M16 x 1.0	Nut	Mutter	Ecrou
	SLO-1810-00012	ø 16	O-ring	O-Ring	Bague d'étanchéité

948

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-1130-00004	M16 x 1.0	Nut	Mutter	Ecrou
	SLO-1810-00013	ø 16	O-ring	O-Ring	Bague d'étanchéité

951, 955, 956

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-1130-00005	M22 x 1.0	Nut	Mutter	Ecrou
	SLO-1810-00014	ø 22	O-ring	O-Ring	Bague d'étanchéité
	SLO-8900-00001	M22	Tool for nut	Mutterschlüssel	Outil pour ecrou

962

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-1130-00001	M25 x 1.0	Nut	Mutter	Ecrou
	SLO-1810-00010	ø 25	O-ring	O-Ring	Bague d'étanchéité

Accessories/Spare Parts

Zubehör/Ersatzteile

Accessoires/Pièce de rechange

876, 877

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-4210-00012	M11 x 0.5	Nut, brass nickel plated brass	Mutter, Messing vernickelt	Ecrou, laiton nickelé
	SLO-1211-00006	ø 11	Lockwasher, zinc plated steel	Fächerscheibe, Stahl verzinkt	Rondelle dentelée, acier galvanisé
	SLO-1810-00005	ø 8.5	O-ring for body	O-Ring für Signallampenkörper	Bague d'étanchéité pour corps
	SLO-1810-00006	ø 9	O-ring for cap	O-Ring für Signallampenkappe	Bague d'étanchéité pour cabochon

886, 887

	Part no. /Art-Nr./ No. d'article	Dimension	Description	Beschreibung	Description
	SLO-4210-00013	M12 x 0.75	Nut, nickelplated brass	Klemmschelle	Fixation
	SLO-1213-00002	ø 12	Lockwasher, zinc plated steel	Klemmscheibe	Fixation
	SLO-1810-00008	ø 12	O-ring for body	O-Ring für Signallampenkörper	Bague d'étanchéité pour corps
	SLO-1810-00006	ø 9	O-ring for Cap	O-Ring für Signallampenkappe	Bague d'étanchéité pour cabochon

LEDs

Leuchtdioden
Diode Luminescente



Based LEDs

Gesockelte LEDs
LED à Culot



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LED Module

LED Module
Modules LED



LED Profile

LED Profile
Profilé à LED



Emer.-Exit light

Notausgangsleuchten
Eclairage des sorties



Major application fields:

Automotive/Special vehicles:

Warning lights, emergency indicators, car immobilizing systems, car factory automation.

Blue LED flashers for Police cars, Diplomacy cars, special forces vehicles.

Consumer electronics:

Microwave ovens, toasters, coffee machines, Irons, refrigerators.

Industrial controls / Traffic controls:

Panel indicators, elevators, photo-processing darkroom lights, traffic control, railway track diagram indicators, power stations.

LED clusters for railway use.

Telecommunication:

PCB line indicators, status indicators, portable communication equipment.

Defence:

Tank/tank missiles, combat aircrafts, mine detectors warning lights, submarine engine control, fire coordination systems for tanks.

28 NATO Numbers.

NATO Manufacturer Code S3643.

French Army „GAM T1“ listed.

Aviation:

Commercial and military, cockpit lights, stewardess call systems.

Security:

Safety control panels surveillance, emergency lights.

Medical:

Fault indicators, sealed indicators for surgery equipment,

blood analyser, nurse-call systems, dentist equipment.

We strive to be a Total Quality company that anticipates and responds to our customer's needs, continuously improving our products and processes.



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