



R STAHL miniCLIX Plug connector Flange Ssocket Installation Guide

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R STAHL miniCLIX Plug connector Flange
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Ex Plug Connector
Series 8591/2 6-poles



- Simple installation and maintenance in Zone 1, safe and fast disconnection under load

- 6+1-pole, rated voltage up to 400 V AC, rated current up to 16 A
- Suitable for harsh industry environments, IP66/IP68, for Zones 1 and 2



WebCode 8591B

R. STAHL Series 8591/2 7-pole, explosion-protected mini CLIX plug connectors disconnect non-intrinsically safe circuits up to 400 V/16 A and are used as a hot swap plug connection for signal and data cables. They are available in various versions and materials: Device plugs, flange sockets, plugs/couplers made of polyamide, nickel-plated brass or stainless steel. The cable can be connected using a crimp or spring clamp terminal. Preinstalled cables for device plugs and flange sockets enable fast and safe installation in the end devices.

	IECE _x / ATEX					
Zone	0	1	2	20	21	22
Installation in		●	●			

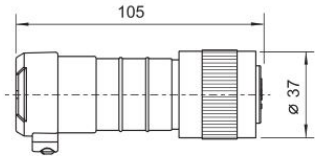
Selection Table									
Product Description Clamping range		miniCLIX plug connector Coupling 7 ... 11 mm							
Figure	Enclosure material	Detailed number of poles	Rated operation- al voltage AC	Rated operation- al voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	8591/231-06-3003	210731	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm ² crimp	8591/231-10-3003	210733	0.100
		7 P	–	24 V	8	1.5 mm ² crimp	8591/231-08-3003	210732	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm ² crimp	8591/231-06-0003	210726	0.127
		6 P + PE	380 – 415 V	–	10	1.5 mm ² crimp	8591/231-10-0003	210728	0.100
		7 P	–	24 V	8	1.5 mm ² crimp	8591/231-08-0003	210727	0.100
	Stainless steel	7 P	–	24 V	8	1.5 mm ² crimp	8591/231-08-1003	210729	0.100

Selection Table									
Product Description Cable entry		miniCLIX plug connector Device plug < 2 dm³ M25							
Figure	Enclosure material	Detailed number of poles	Rated operation- al voltage AC	Rated operation- al voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm² conduc- tor 30 cm	8591/291-06-3000	210758	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm² conduc- tor 30 cm	8591/291-10-3000	210759	0.100
		7 P	–	24 V	8	1.5 mm² conduc- tor 30 cm	8591/291-08-3000	210760	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm² crimp	8591/291-06-0000	210755	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm² crimp	8591/291-10-0000	210756	0.100
		7 P	–	24 V	8	1.5 mm² crimp	8591/291-08-0000	210757	0.100
Product Description Cable entry		miniCLIX plug connector Flange socket M25							
Figure	Enclosure material	Detailed number of poles	Rated operation- al voltage AC	Rated operation- al voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm² conduc- tor 30 cm	8591/281-06-3000	210749	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm² conduc- tor 30 cm	8591/281-10-3000	210750	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm² crimp	8591/281-06-0000	210746	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm² crimp	8591/281-10-0000	210747	0.100
		7 P	–	24 V	8	1.5 mm² crimp	8591/281-08-0000	210748	0.100
Product Description Clamping range		miniCLIX plug connector Plug 7 ... 11 mm							
Figure	Enclosure material	Detailed number of poles	Rated operation- al voltage AC	Rated operation- al voltage DC	Coding (clock hour position)	Connection type	Product Type	Art. No.	Weight kg
	Nickel-plated brass	6 P + PE	230 – 250 V	–	6	1.5 mm² crimp	8591/271-06-3003	210741	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm² crimp	8591/271-10-3003	210743	0.100
		7 P	–	24 V	8	1.5 mm² crimp	8591/271-08-3003	210742	0.100
	Plastic	6 P + PE	230 – 250 V	–	6	1.5 mm² crimp	8591/271-06-0003	210736	0.100
		6 P + PE	380 – 415 V	–	10	1.5 mm² crimp	8591/271-10-0003	210738	0.100
		7 P	–	24 V	8	1.5 mm² crimp	8591/271-08-0003	210737	0.100

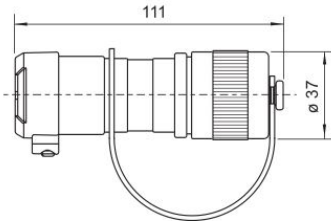
Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb IIC T6 Gb
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T6 Gb
Certificates	ATEX (PTB), IECEx (BKI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEx.
Electrical Data	
Switching capacity	IEC/EN 60947 AC-1: 400 V / 16 A DC-1: 400 V / 1 A DC-3: 60 V / 0.5 A

Technical Data	
Ambient Conditions	
Ambient temperature	-55 °C ... +40 °C
Note	- 20 ... + 40 °C plastic version - 20 ... + 75 °C plastic version I _m max. 1 A - 55 ... + 40 °C metal version - 55 ... + 75 °C metal version I _m max. 1 A
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	IP68 (2 m water column, 1 hour) according to IEC/EN 60529 (with protective caps closed and secured as well as properly fitted and secured components)

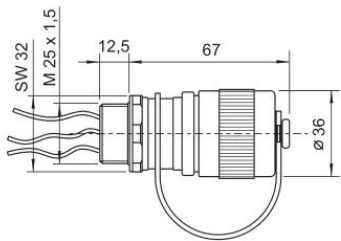
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



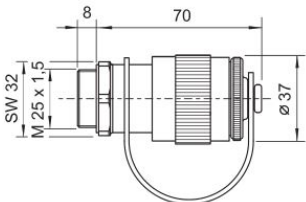
Plug (plastic, metal)



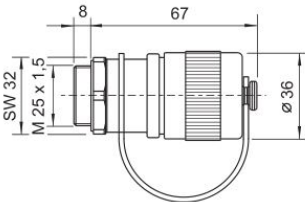
Coupler (plastic, metal)



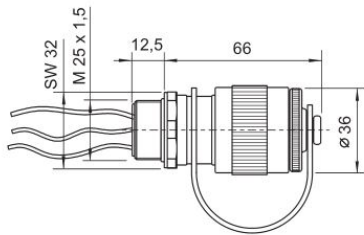
Flange socket (metal)



Flange socket (plastic)



Flange socket (plastic)



Device plug for Ex d enclosure with volume < 2 dm³ (metal)

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