

Installation equipment

20 A flange socket

Flange socket

8570/25-509-S-XX-X-00-XXX Art. No. 290136



- Different voltage ranges according to EN 60309
- Large temperature range of use
- Small dimensions for integration into machines and connection chambers
- High mechanical impact and shock resistance
- Perfect protection against penetration of liquids and dusts
- 3D data for download on the website
- Appropriate Series 8570/22 plug

MY R. STAHL 8570W



R. STAHL Series 8570/25 SolConeX flange sockets constitute incomplete equipment and are intended for installation in an enclosure with the following types of protection: "eb" or "tb". When installed in an enclosure, they are approved for use in hazardous areas that are classified for the zone or division according to NEC 505. Self-cleaning lamellar contacts provide optimum contact and the plugs can be inserted and removed in the zero position quickly and easily. The load disconnect switch, with a mechanical locking device and a handle that can be locked in the 0 or I position, is an additional safety feature. Thanks to the compact design, the flange socket can be integrated into nearly all enclosures and, with the internal locking device, ensures fast and safe connection of devices.

Technical Data

Explosion Protection

Area of application	European Union (ATEX) Canada IECEX USA
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 19.0018U
IECEX gas explosion protection	Ex db eb IIC Gb
IECEX dust certificate	IECEX PTB 19.0018U
IECEX dust explosion protection	Ex tb IIIC Db
ATEX gas certificate	PTB 19 ATEX 1005 U
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC Gb
ATEX dust certificate	PTB 19 ATEX 1005 U
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC Db
FMus certificate	FM20US0118U
Marking FMus	Class I, Div. 2, Groups A,B,C,D; Class II, III, Div. 1, Groups E,F,G, Enclosure Type 3, 4, 4X Class I, Zone 1, AEx db eb IIC Gb; Zone 21, AEx tb IIIC Db
cFM certificate	FM20CA0058U
Marking cFM	Ex db eb IIC Gb; Class I, Div. 2, Groups A,B,C,D; Class II, III, Div. 1, Groups E,F,G, Enclosure Type 3, 4, 4X Ex tb IIIC Db

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STAHL

Explosion Protection

Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEx (PTB), Korea (KGS), USA (FM)
Ship approval	DNV

Electrical Data

Type of voltage	Low voltage
Rated operational voltage	120/208 ... 144/250 V AC
Rated operational current	20 A
Electrical service life	> 5x10 ³ switching cycles
Mechanical service life	> 5x10 ³ switching cycles
Horsepower rating	5 hp
Frequency range	50 / 60 Hz

Device Specific Data

Back-up fuse with thermal protection	35 A gG
Back-up fuse without thermal protection	20 A gG

Ambient Conditions

Ambient temperature	-50 °C to +65 °C
Ambient temperature	-58 °F to +149 °F

Mechanical Data

Degree of protection IP (IEC 60529)	IP66
IP degree of protection (IEC 60079)	IP64
Enclosure type (NEMA250)	3, 4, 4X
Enclosure material	Polyamide, Glass fiber reinforced
Silicone-free	No
Solid connection cross-section	1 x 1.5 mm ² ... 2 x 6 mm ²
Connection cross-section AWG single stranded	1 x AWG 16 ... 2 x AWG 10
Finely stranded connection cross-section	1 x 1.5 mm ² ... 2 x 4 mm ²
Finely stranded connection cross-section AWG	1 x AWG 16 ... 2 x AWG 12
Detailed number of poles	4-pole, 5 wire
Detailed pole number 2	3 P + N + PE
Width	97 mm
Width, inches	3.82 in
Height	136 mm
Height in inches	5.35 in
Length	195 mm
Length in inches	7.68 in
Impact strength (IEC 60079)	7 J
Impact strength (IEC 62262)	IK10
Color code	Blue
Coding (clock hour position)	9
Lockable in	in 0- and I-position
Interlock	Prevents the plug from being pulled under load
Series	SolConeX
Weight	1 kg

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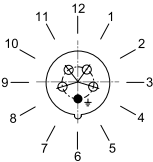
Mechanical Data

Weight	2.2 lb
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Mounting / Installation

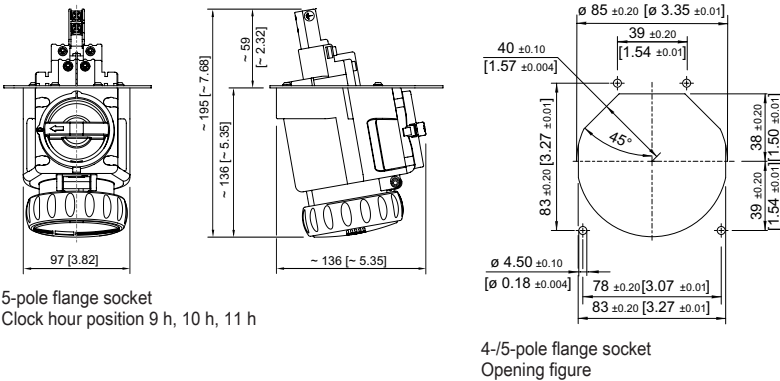
Connection	Screw terminal
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Technical Drawings – Subject to Alterations



Position of clock hour position
Example: 6 h position

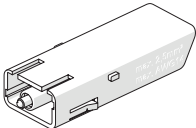
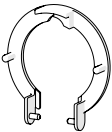
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



5-pole flange socket
Clock hour position 9 h, 10 h, 11 h

4-/5-pole flange socket
Opening figure

Accessories

Auxiliary contact optional, pluggable by the user, easy to retrofit		Art. No.
	1 NC Max. 500 V AC, max. 110 V DC Max. 6 A 1 x AWG 20 to 2 x AWG 14, 1 x 0.5 to 2 x 2.5 mm ² , solid/finely stranded	150688
	1 NO Max. 500 V AC, max. 110 V DC Max. 6 A 1 x AWG 20 to 2 x AWG 14, 1 x 0.5 to 2 x 2.5 mm ² , solid/finely stranded	150690
	1 NO, gold-plated contact Max. 500 V AC, max. 110 V DC Max. 6 A 1 x AWG 20 to 2 x AWG 14, 1 x 0.5 to 2 x 2.5 mm ² , solid/finely stranded	150692
Dust cover for receptacles, series 8570		Art. No.
	Retrofittable dust protection for 4-pole, 5 wire sockets	255004

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Plug		Art. No.
	plug, 4-pole, 5 wire, 120/208 to 144/250 V AC, 50 / 60 Hz, 20 A	291377

Spare Parts

Repair set for receptacles series 8570		Art. No.
	8570 4-pole, 5 wire, hinged cover repair set, blue	274106

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.