



- ▶ Compact size
- ▶ Quick delivery
- ▶ Low cost
- ▶ Ideal for video, digital high frequency signals and data rate
- ▶ Gold alloy rings and brushes
- ▶ High reliability and duration
- ▶ Can be easily customised for special applications
- ▶ Some versions available with power circuits
- ▶ Low friction torque
- ▶ Smooth rotation
- ▶ In compliance with CE and ROHS standards

SRC/SRW/SRF *Series*



SLIP RINGS / ROTARY JOINTS



Series SRC e SRW

Slip Rings can be used in any system requiring the transmission of electrical and/or power signals to an intermittently or continuously rotating shaft.

Thanks to the small ring diameter, the **SRC/SRW Series**, grants low peripheral speed between brushes and rings, as well as reduced dynamic imbalance what means very low wear, what means long life.

Designed to deliver a flexible, cost-effective, reliable and hi-quality solution, these units are available in many standard configurations and with 3 to 56 circuits. Their compact size allows installation into small systems thus requiring high performances. More applications can be met also based upon customized versions (special: connectors, cables, cable length, number of circuits etc.)

The **SRC Series** use noble metals (gold to gold alloy) assuring longlasting using life, reducing electric noise, interferences among circuits and low contact electric resistance. These units are therefore specially suited to transmission of critical signals, such as hi frequency signals and data rate, very low currents and voltages (strain gages, thermocouples, measuring equipment etc.), even if versions with up to 8A are available.

The **SRW Series** has been mainly conceived for power circuits up to 20A, despite its extremely compact size.

Standard Applications

- ▶ Video systems / Ligthning
- ▶ Robots and downhole inspection equipment
- ▶ Manufacturing and process control equipment
- ▶ Medical equipment
- ▶ Packaging machines
- ▶ Windpower
- ▶ Reels

Standard Features

- ▶ Voltage: SRC: 240 VDC/240 VAC max; SRW: 120 VDC/120 VAC
- ▶ Cables: silver plated - PTFE insulation and colour coded
1A continuous/2A peak: AWG28; 2A: AWG26; 4A: AWG22; 6A: AWG20;
8÷12A: AWG16; 20A: AWG14
- ▶ Cable length: 250 mm. standard (other lengths on demand)
- ▶ Dielectric strength: 500 VAC at 60 Hz
- ▶ Insulation resistance: > 500 MΩ / 500 Vcc
- ▶ Noise: < 100 mΩ at 6 Vcc and 50 mA (at 5 rpm)
- ▶ Nominal speed: 250 rpm (for higher speed up to 600 rpm please contact us)
- ▶ Temperature: -20°C to +80°C (option: -40 to +80°C)
- ▶ Bearings: miniature, precision steel ball bearings
- ▶ Contact: gold to gold (alloy)
- ▶ Rating life: 10⁷ revolutions (depending on speed and on enviromental conditions)
- ▶ Protection: IP 51

Model	Circuits total nbr.	Nbr. of circuits				Outside diameter (mm)	Outside length "L" Ref. (mm)	Dimension "C" (mm)	Housing
		2A	6A	8A	Altri				
SRC 012-3-AB	3	3 *	-	-	-	12,4	14	4	ABS (hard plastic)
SRC 012-6-AB	6	6 *	-	-	-	12,4	14	4	"
SRC 012-12-AB	12	12 *	-	-	-	12,4	19,5	4	"
SRC 012-18-AB ■	18	18 *	-	-	-	12,4	23	4,8	"
SRC 022-6-AB	6	6	-	-	-	22	19	7,8	"
SRC 022-12-AB	12	12	-	-	-	22	28	7,8	"
SRC 022-12-2P/2S-AB	4	2	2	-	-	22	28	7,8	"
SRC 022-18-AB	18	18	-	-	-	22	34	7,8	"
SRC 022-18-3P-AB	3	-	-	3	-	22	34	7,8	"
SRC 022-24-AB	24	24	-	-	-	22	42	7,8	"
SRC 022-24-4P/6S-AB	10	6	4	-	-	22	42	7,8	"
SRC 022-36-AB ■ ■	36	36 *	-	-	-	22	57	7,8	"
SRC 025-30-AL	30	30	-	-	-	25	52	9,8	Aluminum
SRC 025-30-4P/18S-AL	22	18	4	-	-	25	52	9,8	"
SRC 025-30-3P/15S-AL	18	15	-	3	-	25	52	9,8	"
SRC 025-36-AL	36	36	-	-	-	25	60	9,8	"
SRC 025-36-4P/24S-AL	28	24	4	-	-	25	60	9,8	"
SRC 025-36-4P/16S-AL	20	16	-	4	-	25	60	9,8	"
SRC 025-36-4P/20S-2RG178	26	20	4	-	2xRG178	25	60	9,8	"
SRC 025-46-AL	46	46	-	-	-	25	73	9,8	"
SRC 025-56-AL	56	56 *	-	-	-	25	86	9,8	"
SRC 025-56-4P/44S-AL	48	44	4	-	-	25	86	9,8	"
SRC 025-56-4P/36S-AL	40	36	-	4	-	25	86	9,8	"
SRC 025-56-4P/40S-2RG178	46	40	4	-	2xRG178	25	86	9,8	"
SRW 022-6-3P-AB	3	-	-	-	3 x 4A	22	21	7,8	ABS (hard plastic)
SRW 022-12-3P-AB	3	-	-	3	3 x 8A	22	29	7,8	"
SRW 022-18-3P-AB	3	-	-	-	3 x 10A	22	35	7,8	"
SRW 022-24-3P-AB	3	-	-	-	3 x 20A	22	43	7,8	"

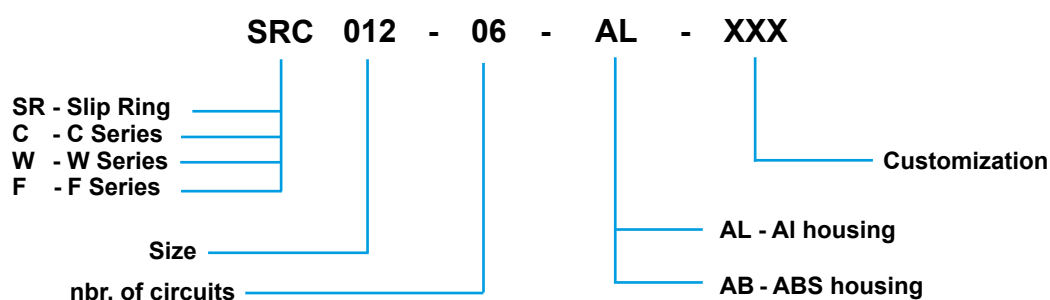
Note: - SRC 012, SRC 022-36 and SRC 025-56-AL: AWG28 cables for 1A continuous - 2A peak - 240V.*

- SRC 022 and SRC 025: available with fibre optic rotary joint, on demand.

- SRC022 and SRC 025: available with 50 Ω RG178 and 75 Ω RG179 coax cable, on demand.

- 40°C +80°C extended temperature versions available.
- Special versions with 15/16/18/20 mm ext. dia. available.
- Available with "A3" and "B" flange only. ■
- With big flange in the middle only available (standard version). ■ ■

ORDER CODE

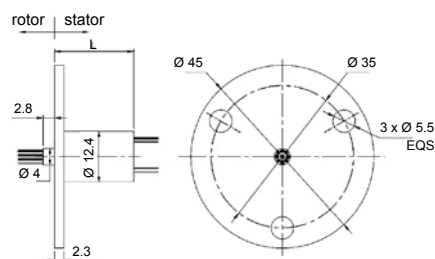


Series SRC

SRC012A (Standard - big flange on the top)



Dimensions (mm)

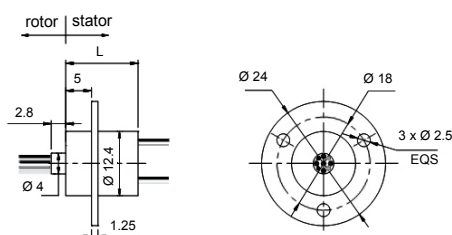


Model	L (mm)
SRC012A-6	14
SRC012A-12	19.5

SRC012 (small flange in the middle)



Dimensions (mm)

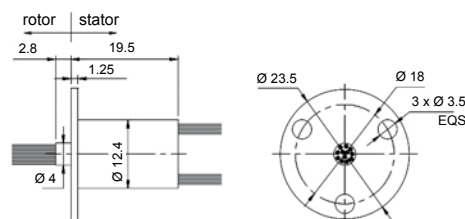


Model	L (mm)
SRC012-6	14
SRC012-12	19.5

SRC012A2 (small flange on the top)



Dimensions (mm)

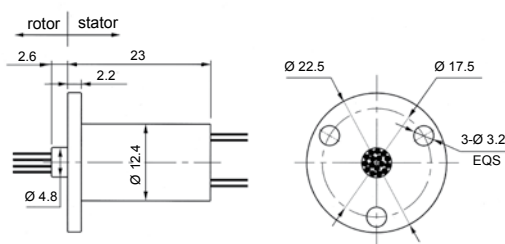


Model	L (mm)
SRC012A2-6	14
SRC012A2-12	19.5

SRC012A3

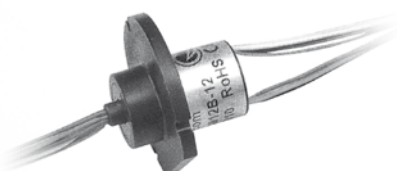


Dimensions (mm)

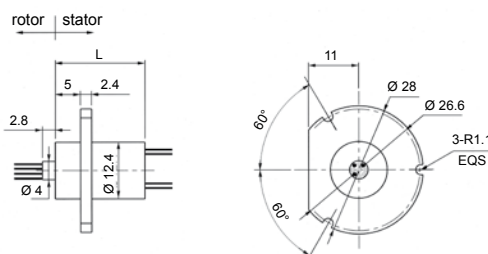


Model	L (mm)
SRC012A3-18	23

SRC012B



Dimensions (mm)

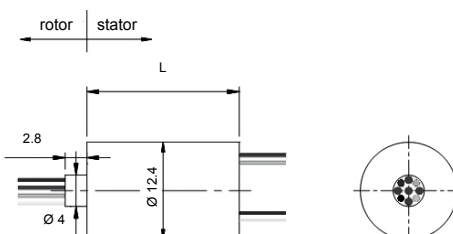


Model	L (mm)
SRC012B-18	23

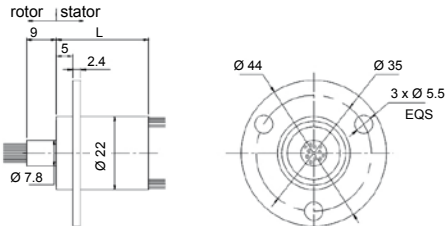
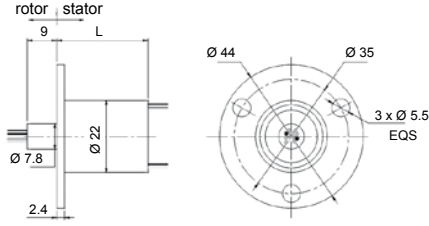
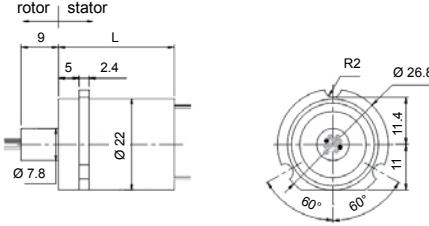
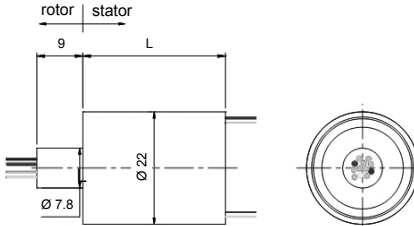
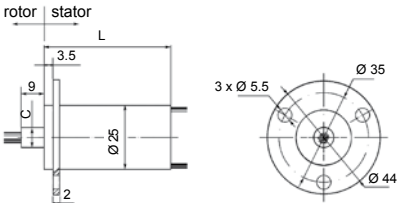
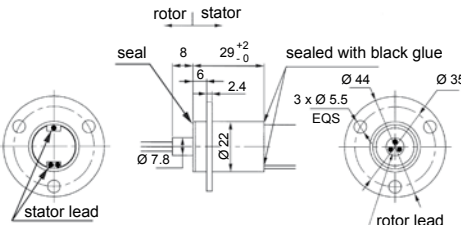
SRC012C (without flange)



Dimensions (mm)



Model	L (mm)
SRC012C-6	14
SRC012C-12	19.5

SRC022 (Standard - big flange in the middle) 	Dimensions (mm)  <table border="1" data-bbox="1270 353 1469 568"> <thead> <tr> <th>Model</th><th>L (mm)</th></tr> </thead> <tbody> <tr><td>SRC022-6</td><td>19</td></tr> <tr><td>SRC022-12</td><td>28</td></tr> <tr><td>SRC022-15</td><td>30</td></tr> <tr><td>SRC022-18</td><td>34</td></tr> <tr><td>SRC022-24</td><td>42</td></tr> <tr><td>SRC022-36</td><td>57</td></tr> </tbody> </table>	Model	L (mm)	SRC022-6	19	SRC022-12	28	SRC022-15	30	SRC022-18	34	SRC022-24	42	SRC022-36	57
Model	L (mm)														
SRC022-6	19														
SRC022-12	28														
SRC022-15	30														
SRC022-18	34														
SRC022-24	42														
SRC022-36	57														
SRC022A (big flange on the top) 	Dimensions (mm)  <table border="1" data-bbox="1270 797 1469 891"> <thead> <tr> <th>Model</th><th>L (mm)</th></tr> </thead> <tbody> <tr><td>SRC022A-6</td><td>19</td></tr> <tr><td>SRC022A-12</td><td>28</td></tr> </tbody> </table>	Model	L (mm)	SRC022A-6	19	SRC022A-12	28								
Model	L (mm)														
SRC022A-6	19														
SRC022A-12	28														
SRC022B (special flange in the middle) 	Dimensions (mm)  <table border="1" data-bbox="1270 1048 1469 1205"> <thead> <tr> <th>Model</th><th>L (mm)</th></tr> </thead> <tbody> <tr><td>SRC022B-6</td><td>19</td></tr> <tr><td>SRC022B-12</td><td>28</td></tr> <tr><td>SRC022B-18</td><td>34</td></tr> <tr><td>SRC022B-24</td><td>42</td></tr> </tbody> </table>	Model	L (mm)	SRC022B-6	19	SRC022B-12	28	SRC022B-18	34	SRC022B-24	42				
Model	L (mm)														
SRC022B-6	19														
SRC022B-12	28														
SRC022B-18	34														
SRC022B-24	42														
SRC022C (without flange) 	Dimensions (mm)  <table border="1" data-bbox="1270 1368 1469 1525"> <thead> <tr> <th>Model</th><th>L (mm)</th></tr> </thead> <tbody> <tr><td>SRC022C-6</td><td>19</td></tr> <tr><td>SRC022C-12</td><td>28</td></tr> <tr><td>SRC022C-18</td><td>34</td></tr> <tr><td>SRC022C-24</td><td>42</td></tr> </tbody> </table>	Model	L (mm)	SRC022C-6	19	SRC022C-12	28	SRC022C-18	34	SRC022C-24	42				
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SRC022C-6	19														
SRC022C-12	28														
SRC022C-18	34														
SRC022C-24	42														
SRC025 	Dimensions (mm) 														
SRW022 	Dimensions (mm)  <table border="1" data-bbox="1270 2011 1469 2168"> <thead> <tr> <th>Model</th><th>L (mm)</th></tr> </thead> <tbody> <tr><td>SRW022-6-3P</td><td>21</td></tr> <tr><td>SRW022-12-3P</td><td>29</td></tr> <tr><td>SRW022-18-3P</td><td>35</td></tr> <tr><td>SRW022-24-3P</td><td>43</td></tr> </tbody> </table>	Model	L (mm)	SRW022-6-3P	21	SRW022-12-3P	29	SRW022-18-3P	35	SRW022-24-3P	43				
Model	L (mm)														
SRW022-6-3P	21														
SRW022-12-3P	29														
SRW022-18-3P	35														
SRW022-24-3P	43														

Series SRF

These series can transfer up to 12 electrical signals besides one RF coaxial channel from a stationary to a rotating structure. Said channel can transfer up to 3 Gbps and 3 GHz. Unit particularly fit for transmission of hi definition signals (1080p/3G- SDI or 1080i/HD-SDI). Normally used coaxial cables: RG178, RG316 and RG174. Estimated lifetime: 1M revolutions.

Model	Circuits total nbr.	Outside diameter (mm)	Outside length "L" Ref. (mm)
SRF 022-8 /1RF	8	22	24
SRF 022-12 /1RF	12	22	29

Slip Ring Features

- ▶ Voltage: 240V
- ▶ Current: 2A
- ▶ Cables: silver plated - FEP insulation and colour coded
- ▶ Cable length: 250 mm. standard (other lengths on demand)
- ▶ Dielectric strength: 500 VAC at 60 Hz, 60 VDC
- ▶ Insulation resistance: 500 MΩ / 500 Vcc
- ▶ Noise: < 100 mΩ at 6 Vcc and 50 mA (at 5 rpm)

RF Coaxial Joint Features

- ▶ Frequency: DC - 3 GHz
- ▶ Data rate: ≥3 Gbps
- ▶ Specific impedance: 50 Ω
- ▶ Coaxial cable: RG316 (others on demand)
- ▶ RF connector: MMCX (others on demand)

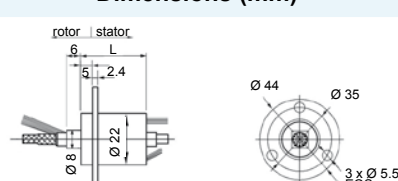
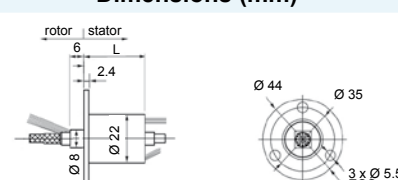
CATSRC/SRW/SRF-REV13EN-180212

Mechanical Data

- ▶ Speed: 100 rpm
- ▶ Temperature: -20° C +80° C
- ▶ Contact: Precious metals (alloy)
- ▶ Bearings: Miniature, precision steel ball bearings

Standard Applications

- ▶ Hi definition video systems
- ▶ RF systems
- ▶ Radar antennas

SRF022	Dimensions (mm)
	
SRF022A	Dimensions (mm)
	
SRF022C	Dimensions (mm)
	