

# SVTS D Series

Ruggedized Slip Rings



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## Ruggedized Slip Rings



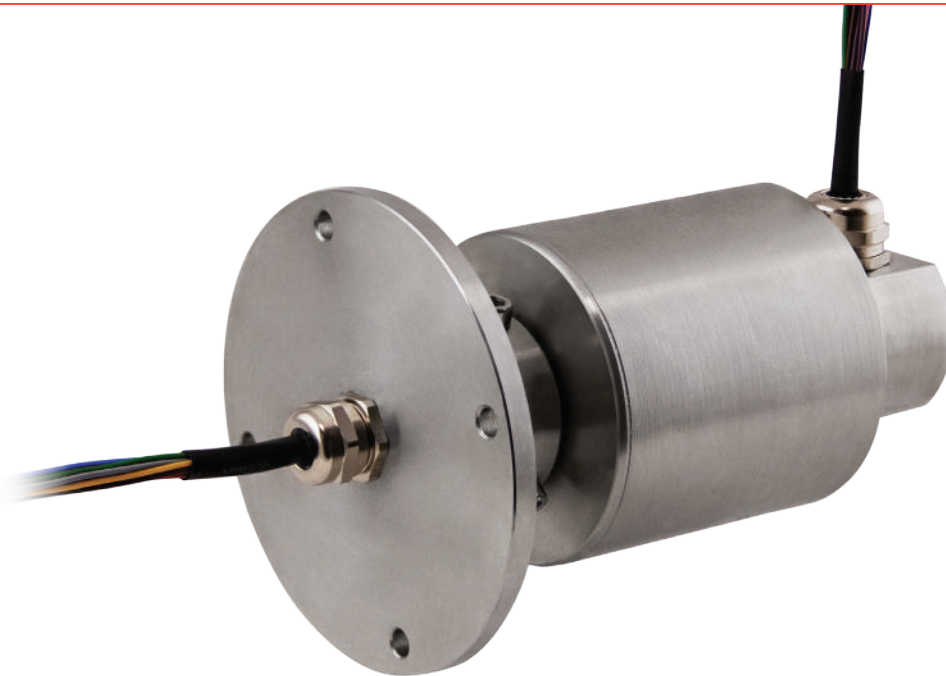
Robust



IP 65



Power, signals & fieldbus



The robust D Series Slip Rings have a stainless steel/aluminium housing and cable fittings on the slip ring inlet and outlet.

Particularly suitable for harsh environments where environmental conditions require sturdy objects and suitable materials for the food & beverage industry.

The use of fibre brush and gold-gold technology in the D series rotary joints, ensures a long life and high-quality signal transmission.

## Benefits

Robust mechanical construction

Transmission of electric power/signals and fieldbuses in one unit

Water resistant IP65 (standard)

Many sizes

Many customisations

Combinable with fluidic rotary joints and FORJ

## Main applications

Fillin & labelling machines

Capping machines

Converting machines

Automatic machines

Hose reels

Machine tools

Medical systems

Packaging

Printing machines










Process control

Robots

Rotary tables

## Product code (go to page 9 for the detailed coding system)

SVTS D   -  -  -   /   -     /     -   -   

-  Series
-  Model
-  IP grade<sup>1</sup>
-  Flange type
-  Power circuits
-  Signal circuits
-  Cable length (brush side)
-  Cable length (ring side)
-  Temperature range<sup>2</sup>
-  Special options

<sup>1</sup> Only IP65 [U]

<sup>2</sup> Standard [ST]; Extended [ET]

## Features

|                            |   |
|----------------------------|---|
| Current                    | 2A: AWG26<br>5A: AWG22<br>15A: AWG14  |
| Voltage                    |   |
| Power                      | 600 VAC / 600 VDC   |
| Signals                    | 240 VAC / 240 VDC   |
| Cables                     | Tin plated (power circuits); silver plated (signal circuits)<br>PTFE insulated / colour coded |
| Cables length              | Standard: 500mm; custom cable length increase possible as multiples of 500mm                  |
| Dielectric strength        |   |
| Power                      | 1500 VAC @ 60Hz @ 60 sec  |
| Signals                    | 500 VAC @ 60Hz @ 60 sec   |
| Insulation resistance      |   |
| Power                      | > 1000 MΩ / 500 VDC   |
| Signals                    | > 500 MΩ / 500 VDC  |
| Dynamic contact resistance | < 10 mΩ   |
| Nominal speed              | up to 500 rpm (others on request)   |
| Bearings                   | Steel   |
| Housing                    | Stainless steel   |
| Temperature                | -20°C / +80°C (-40°C as option)   |
| Protection                 | IP65  |
| Expected lifetime          | 10 <sup>8</sup> revolutions (depending on speed, environmental conditions and size)           |

## Combinations

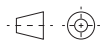
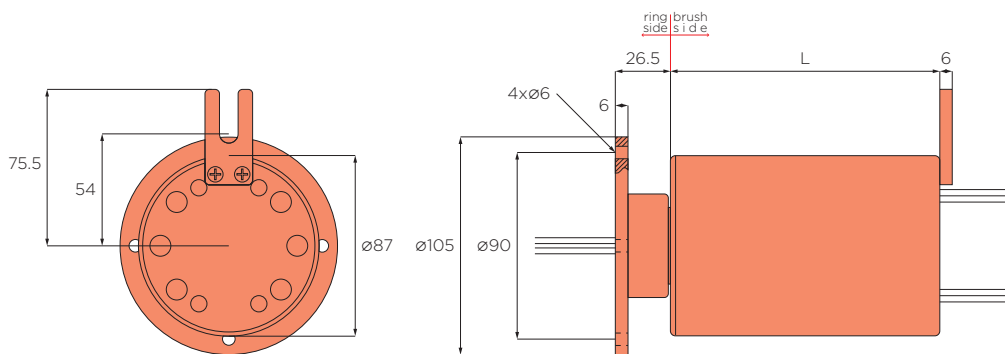
| Electric | Fieldbus  | Fluidic (combined solutions) |
|----------|-----------|------------------------------|
| Signals  | EtherCAT  | Air                          |
| Power    | Profinet  | Oil                          |
|          | Sercos    | Gas                          |
|          | Powerlink | Water                        |
|          | Ethernet  |                              |
|          | Canbus    |                              |

## Customizations

|           |                   |             |
|-----------|-------------------|-------------|
| Cables    | Mechanical design | Flange      |
| Materials | Treatments        | Cable exits |



# SVTS D 02



Custom cable length increase possible as multiples of 500mm

| Model               | Number of circuits |              |               | L   | Color code<br>p. 82 |
|---------------------|--------------------|--------------|---------------|-----|---------------------|
|                     | Total              | Power<br>15A | Signals<br>2A |     |                     |
| SVTS D 02-U-A-06/00 | 6                  | 6            | -             | 59  | CC 7                |
| SVTS D 02-U-A-00/12 | 12                 | -            | 12            | 59  | CC 7                |
| SVTS D 02-U-A-12/00 | 12                 | 12           | -             | 83  | CC 7                |
| SVTS D 02-U-A-06/12 | 18                 | 6            | 12            | 83  | CC 7                |
| SVTS D 02-U-A-00/24 | 24                 | -            | 24            | 83  | CC 7                |
| SVTS D 02-U-A-18/00 | 18                 | 18           | -             | 106 | CC 7                |
| SVTS D 02-U-A-12/12 | 24                 | 12           | 12            | 106 | CC 7                |
| SVTS D 02-U-A-06/24 | 30                 | 6            | 24            | 106 | CC 7                |
| SVTS D 02-U-A-00/36 | 36                 | -            | 36            | 106 | CC 7                |
| SVTS D 02-U-A-24/00 | 24                 | 24           | -             | 130 | CC 7                |
| SVTS D 02-U-A-18/12 | 30                 | 18           | 12            | 130 | CC 7                |
| SVTS D 02-U-A-12/24 | 36                 | 12           | 24            | 130 | CC 7                |
| SVTS D 02-U-A-06/36 | 42                 | 6            | 36            | 130 | CC 7                |
| SVTS D 02-U-A-00/48 | 48                 | -            | 48            | 130 | CC 7                |
| SVTS D 02-U-A-30/00 | 30                 | 30           | -             | 154 | CC 7                |
| SVTS D 02-U-A-24/12 | 36                 | 24           | 12            | 154 | CC 7                |
| SVTS D 02-U-A-18/24 | 42                 | 18           | 24            | 154 | CC 7                |
| SVTS D 02-U-A-12/36 | 48                 | 12           | 36            | 154 | CC 7                |
| SVTS D 02-U-A-06/48 | 54                 | 6            | 48            | 154 | CC 7                |
| SVTS D 02-U-A-00/60 | 60                 | -            | 60            | 154 | CC 7                |
| SVTS D 02-U-A-36/00 | 36                 | 36           | -             | 178 | CC 7                |
| SVTS D 02-U-A-30/12 | 42                 | 30           | 12            | 178 | CC 7                |
| SVTS D 02-U-A-24/24 | 48                 | 24           | 24            | 178 | CC 7                |
| SVTS D 02-U-A-18/36 | 54                 | 18           | 36            | 178 | CC 7                |
| SVTS D 02-U-A-12/48 | 60                 | 12           | 48            | 178 | CC 7                |
| SVTS D 02-U-A-06/60 | 66                 | 6            | 60            | 178 | CC 7                |
| SVTS D 02-U-A-00/72 | 72                 | -            | 72            | 178 | CC 7                |
| SVTS D 02-U-A-42/00 | 42                 | 42           | -             | 202 | CC 7                |
| SVTS D 02-U-A-36/12 | 48                 | 36           | 12            | 202 | CC 7                |
| SVTS D 02-U-A-30/24 | 54                 | 30           | 24            | 202 | CC 7                |
| SVTS D 02-U-A-24/36 | 60                 | 24           | 36            | 202 | CC 7                |
| SVTS D 02-U-A-18/48 | 66                 | 18           | 48            | 202 | CC 7                |
| SVTS D 02-U-A-12/60 | 72                 | 12           | 60            | 202 | CC 7                |
| SVTS D 02-U-A-06/72 | 78                 | 6            | 72            | 202 | CC 7                |
| SVTS D 02-U-A-00/84 | 84                 | -            | 84            | 202 | CC 7                |
| SVTS D 02-U-A-48/00 | 48                 | 48           | -             | 237 | CC 7                |
| SVTS D 02-U-A-42/12 | 54                 | 42           | 12            | 237 | CC 7                |
| SVTS D 02-U-A-36/24 | 60                 | 36           | 24            | 237 | CC 7                |
| SVTS D 02-U-A-30/36 | 66                 | 30           | 36            | 237 | CC 7                |
| SVTS D 02-U-A-24/48 | 72                 | 24           | 48            | 237 | CC 7                |
| SVTS D 02-U-A-18/60 | 78                 | 18           | 60            | 237 | CC 7                |
| SVTS D 02-U-A-12/72 | 84                 | 12           | 72            | 237 | CC 7                |
| SVTS D 02-U-A-06/84 | 90                 | 6            | 84            | 237 | CC 7                |
| SVTS D 02-U-A-00/96 | 96                 | -            | 96            | 237 | CC 7                |

All dimensions in millimeters, unless otherwise specified