

Coaxial Two Way Switch (DPDT) || BN 754070



**Radio frequency characteristics**

Interface type (4 connections)	N-f (50 Ω)			
Characteristic impedance	50 Ω			
Frequency range	0 to 1 GHz	1 to 2 GHz	2 to 3 GHz	3 to 5 GHz
VSWR, max.	1.03	1.13	1.13	1.22
Isolation, min.	75 dB	60 dB	60 dB	50 dB
Insertion loss, max.	0.04 dB	0.04 dB	0.06 dB	0.06 dB
Average power capability * at ambient temperature -10 to +45°C	790 W	560 W	450 W	350 W
Peak voltage capability *	3.0 kV			

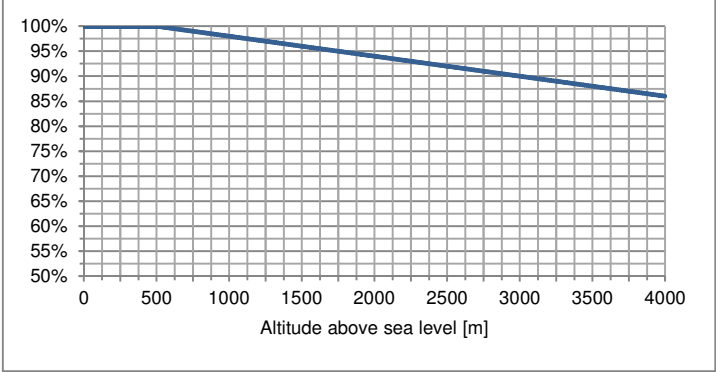
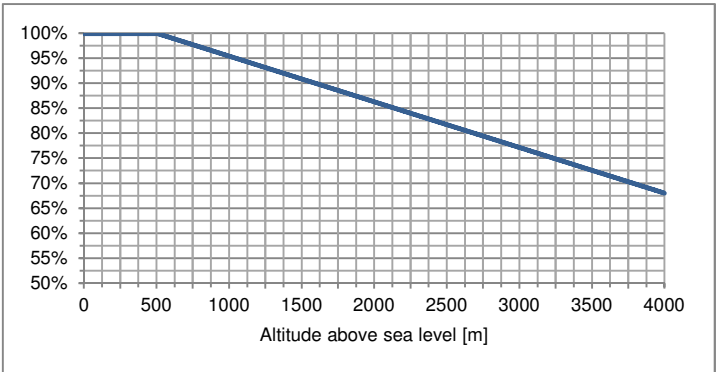
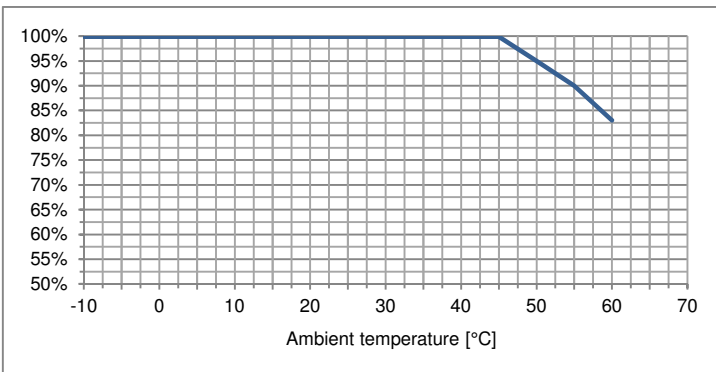
**Electrical and mechanical data**

Switch type	Two way switch, DPDT	
Actuator type	Manual operation	
Connector J1 ** for signaling	9 pole connector according to DIN 41652 / IEC 807-2	
Signal contacts	Maximum ratings	SELV circuits according to IEC EN 60950-1, 42.4 V ACpk / 60 V DC / 0.5 A
	Nominal fuse	The circuit must be externally limited to 0.5 A
Life, min.	500,000 operations	
Weight, approx.	0.5 kg	

**Environmental conditions**

<b>Operational conditions</b>	ETSI EN 300 019-1-3 V2.3.2 (2009-1) class 3.1 N
Ambient temperature ***	-10 to +60°C
Condensation	Not allowed
Relative humidity, max.	95%

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<p>Derating of input power with increasing altitude</p>	<p>The maximum input power can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the maximum input power must be reduced as shown in the diagram.</p> 
<p>Derating of voltage with increasing altitude</p>	<p>The maximum voltage can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the maximum input power must be reduced as shown in the diagram.</p> 
<p>Derating of input power with increasing ambient temperature</p>	<p>The maximum input power can be applied up to +45°C ambient temperature unless noted otherwise in the data sheet. Above this ambient temperature the maximum input power must be reduced as shown in the diagram.</p> 
<p>IP protection level</p>	<p>IP40 according to IEC EN 60529 (all interfaces connected with appropriate gaskets)</p>
<p>Installation position</p>	<p>Any</p>
<p><b>Transport conditions</b></p>	<p>ETSI EN 300 019-1-2 V2.1.4 (2003-04) class 2.2</p>
<p>Ambient temperature</p>	<p>-25 to +70°C</p>
<p>Rain, condensation, icing</p>	<p>Not allowed</p>

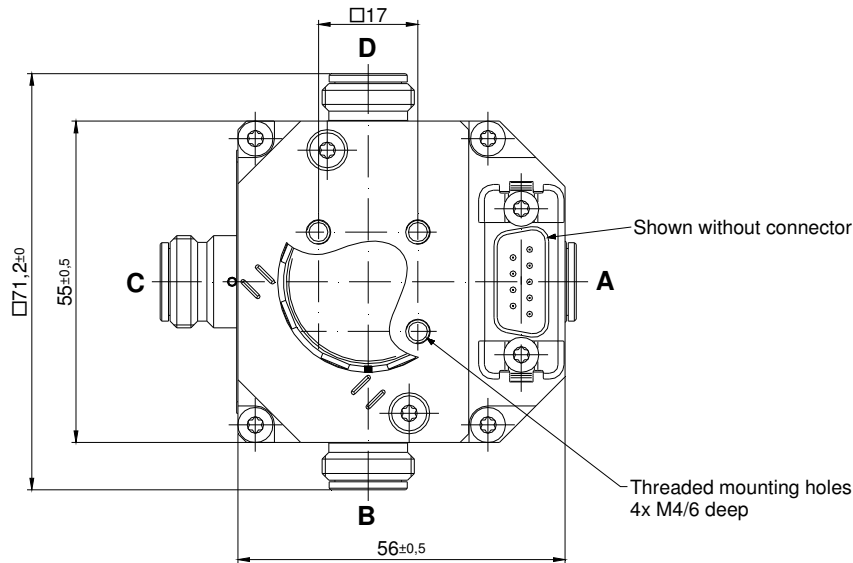
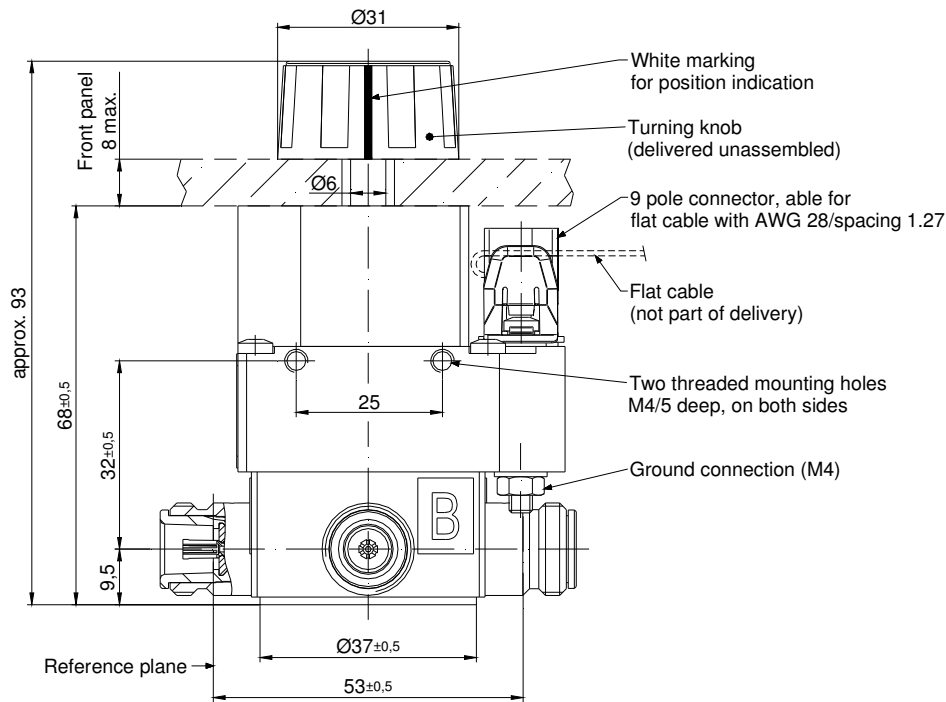
Template TD-00002P

### Coaxial Two Way Switch (DPDT) || BN 754070

<b>Storage conditions</b>	ETSI EN 300 019-1-1 V2.1.4 (2003-04) class 1.2
Ambient temperature	-10 to +60°C
Rain, condensation, icing	Not allowed

- \* *Standard conditions:*  
*Dielectric: Dry air under standard pressure at sea level ( $p = 1013 \text{ hPa}$ )*  
*Load VSWR, max. 1.0 (no standing wave)*  
*No modulation, sinusoidal carrier only*
- \*\* *Suitable mating connector included*
- \*\*\* *Extended temperature range on request*

**Outline (all dimensions in millimeters)**



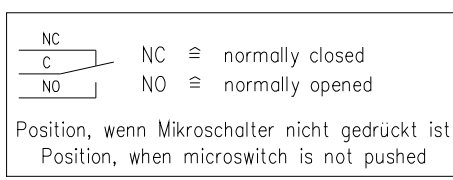
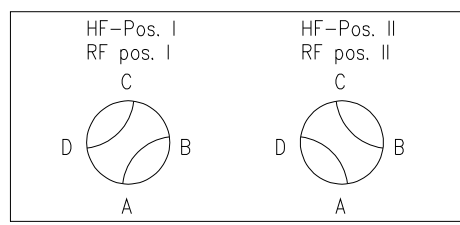
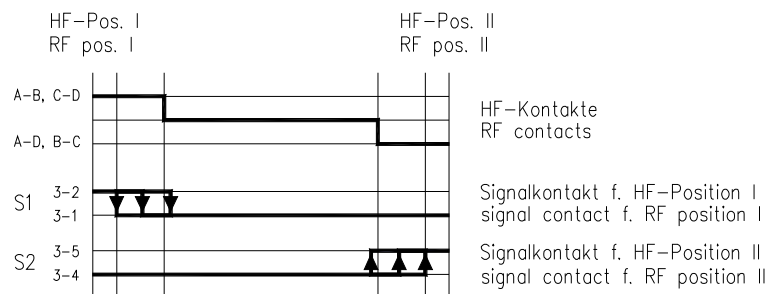
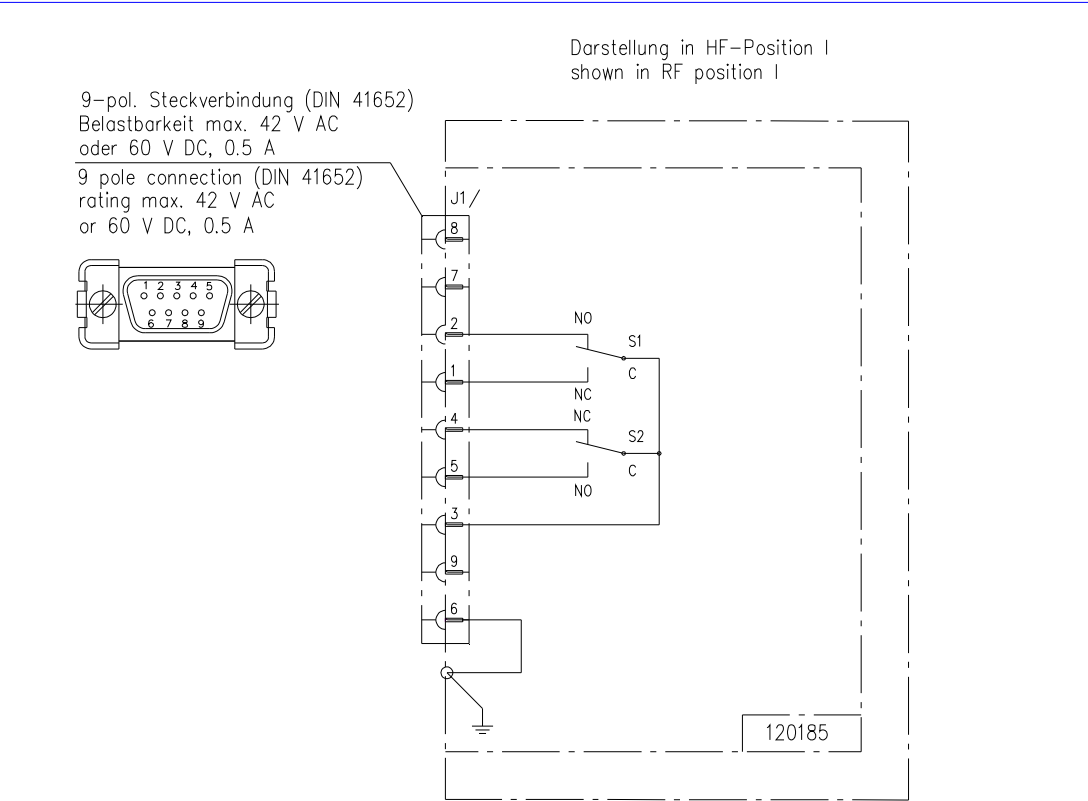
RF connection  
 RF position I: A-B / C-D  
 RF position II: A-D / B-C

Switch shown in RF position I

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Circuit diagram (49189-0E, Issue -)

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DIMENSIONS WITHOUT TOLERANCES ACCORDING DIN ISO 2768-m PART 1				DATE	NAME	DESIGNATION:		
DRAWN	25.09.2006	Samusch	Spinner GmbH Erzgiessereistr. 33 80335 München Germany				circuit diagram for coaxial-two-way-switch manual drive	
WROUGHT	25.09.2006	Samusch						
CHECKED	27.09.2006	Hupfauer						
ISS.	MOD.NR.	DATE	NAME	49189-0E		FORMAT	SCALE	
				A4		1:1		