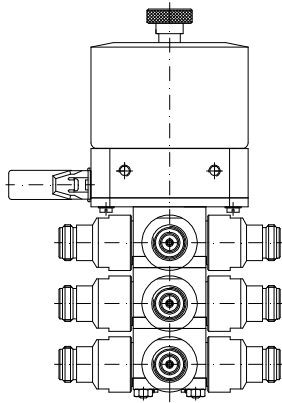


Coaxial Two Way Switch (DPDT) || BN 659038



Radio frequency characteristics

Interface type (3x 4 connections)	N-f (50 Ω)	
Characteristic impedance	50 Ω	
Frequency range	0 to 1 GHz	1 to 2 GHz
VSWR, max.	1.02	1.06
Isolation, min.	90 dB	80 dB
Insertion loss, max.	0.05 dB	0.05 dB
Average power capability *	790 W	560 W
Peak voltage capability *	3.0 kV	

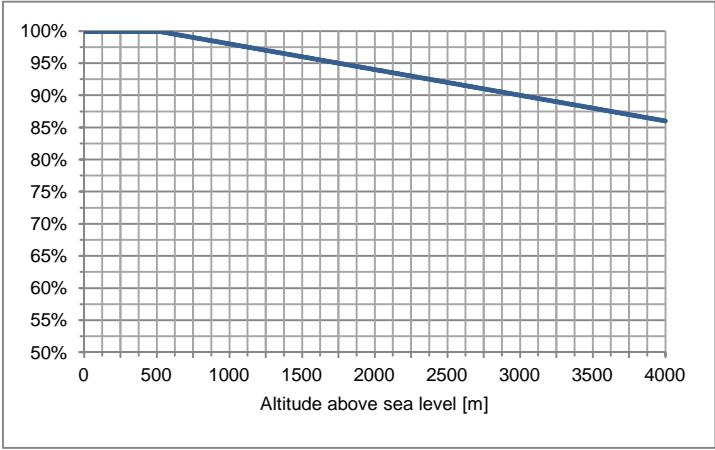
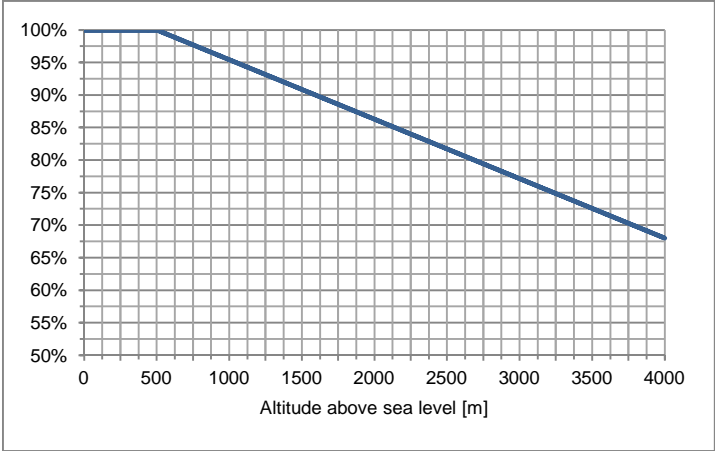
Electrical and mechanical data

Switch type	3 mechanically linked two way switches, DPDT	
Actuator type	Solenoid drive, failsafe	
Connector J1 ** for operating voltage and signaling	15 pole connector according to DIN 41652 / IEC 807-2	
Operating	Operating voltage	24 V DC ±10%
	Operating current, typ. ***	2.5 A
	Retaining current, typ. ***	0.3 A
	Duty cycle	100%
	Nominal fuse	The switch must be externally fused with 3 A time-delay by the user
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 by the user
Switching time, typ.***	100 ms	
Switching frequency, max.	10 operations per minute	
Life, min.	100,000 operations	
Weight, approx.	2.7 kg	

Template TD-00002P

Coaxial Two Way Switch (DPDT) || BN 659038

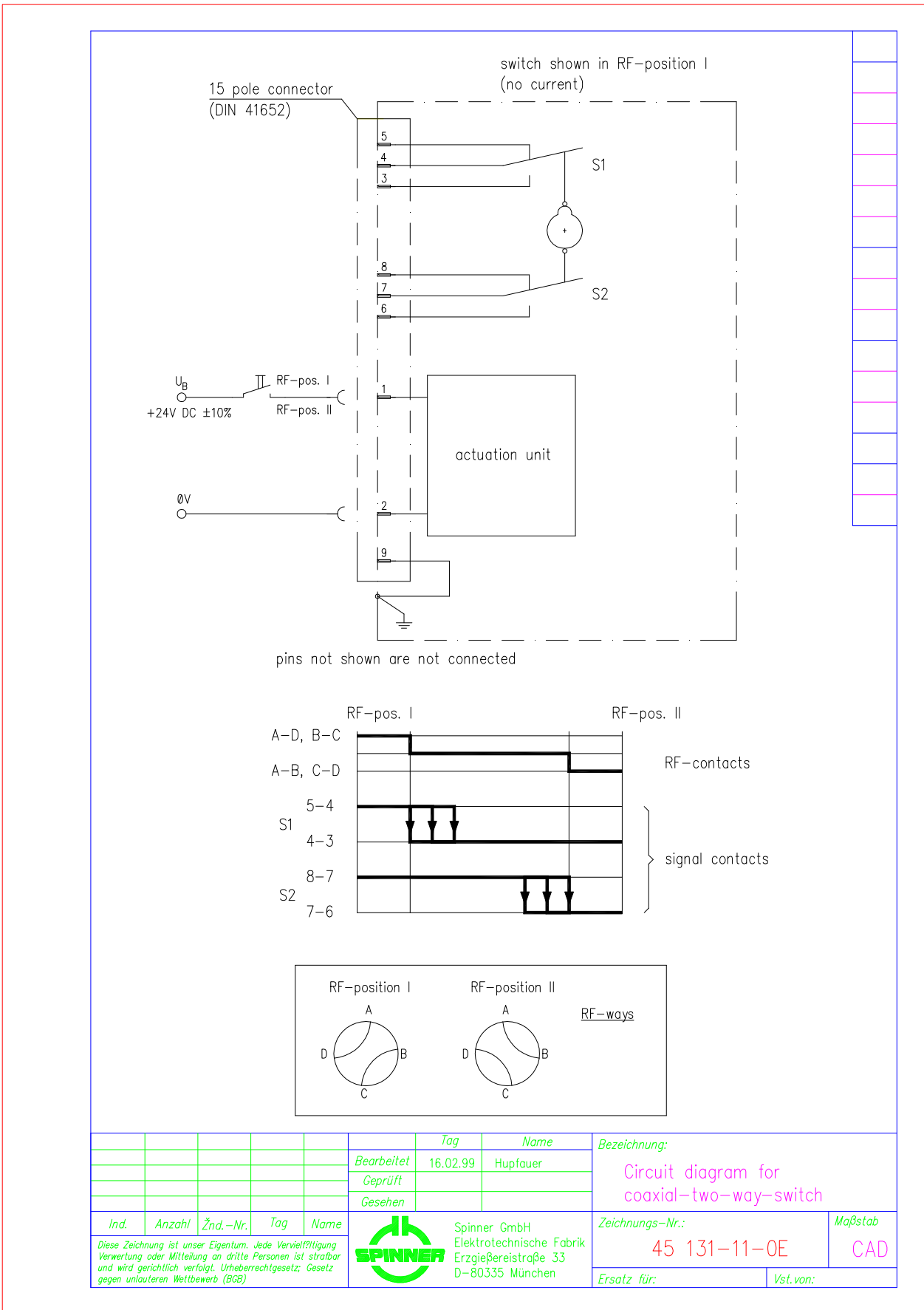
Environmental conditions

Operational conditions	ETSI EN 300 019-1-3 V2.3.2 (2009-1) class 3.1 N																				
Ambient temperature ****	-10 to +45°C																				
Condensation	Not allowed																				
Relative humidity, max.	95%																				
Derating of input power with increasing altitude	<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>  <table border="1"> <caption>Derating of input power with increasing altitude</caption> <thead> <tr> <th>Altitude above sea level [m]</th> <th>Power (%)</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>500</td><td>100</td></tr> <tr><td>1000</td><td>97.5</td></tr> <tr><td>1500</td><td>95</td></tr> <tr><td>2000</td><td>92.5</td></tr> <tr><td>2500</td><td>90</td></tr> <tr><td>3000</td><td>87.5</td></tr> <tr><td>3500</td><td>85</td></tr> <tr><td>4000</td><td>82.5</td></tr> </tbody> </table>	Altitude above sea level [m]	Power (%)	0	100	500	100	1000	97.5	1500	95	2000	92.5	2500	90	3000	87.5	3500	85	4000	82.5
Altitude above sea level [m]	Power (%)																				
0	100																				
500	100																				
1000	97.5																				
1500	95																				
2000	92.5																				
2500	90																				
3000	87.5																				
3500	85																				
4000	82.5																				
Derating of voltage with increasing altitude	<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>  <table border="1"> <caption>Derating of voltage with increasing altitude</caption> <thead> <tr> <th>Altitude above sea level [m]</th> <th>Voltage (%)</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>500</td><td>100</td></tr> <tr><td>1000</td><td>92.5</td></tr> <tr><td>1500</td><td>85</td></tr> <tr><td>2000</td><td>77.5</td></tr> <tr><td>2500</td><td>70</td></tr> <tr><td>3000</td><td>62.5</td></tr> <tr><td>3500</td><td>55</td></tr> <tr><td>4000</td><td>47.5</td></tr> </tbody> </table>	Altitude above sea level [m]	Voltage (%)	0	100	500	100	1000	92.5	1500	85	2000	77.5	2500	70	3000	62.5	3500	55	4000	47.5
Altitude above sea level [m]	Voltage (%)																				
0	100																				
500	100																				
1000	92.5																				
1500	85																				
2000	77.5																				
2500	70																				
3000	62.5																				
3500	55																				
4000	47.5																				
Protection class	III according to IEC EN 61140																				
IP protection level	IP40 according to IEC EN 60529 (all interfaces connected with appropriate gaskets)																				
Installation position	Optional																				
Transport conditions	ETSI EN 300 019-1-2 V2.1.4 (2003-04) class 2.2																				
Ambient temperature	-25 to +70°C																				
Rain, condensation, icing	Not allowed																				

Template TD-00002P

Coaxial Two Way Switch (DPDT) || BN 659038

Circuit diagram (45131-11-0E, Issue -)



Template TD-00002P