



## SIL3 PLe - INCREMENTAL ENCODERS – DSU9X RANGE

### ELECTRICAL CHARACTERISTICS / FUNCTIONAL SAFETY PARAMETERS

Electronic Version	Output signals	Operating Voltage +V	Supply current	Current per channel pair	Short circuits proof	Reverse polarity protected	PFD	PFH	MTTFd	DC
2G2	Digital	5V +/-5%	100mA with no load	40mA	Yes	Yes	7,51E-05	8,58E-10	1331	HIGH
5G2	TTL RS422	11-30V			Not to +V		9,52E-05	1,09E-09	1050	
5G5	Digital HTL				Yes		9,52E-05	1,09E-09	1050	
2WT	Sine Cosine	5V +/-5%	70mA with no load	10mA	Yes		4,29E-05	4,90E-10	2328	
5WT	1Vpp	11-30V			Not to +V		6,60E-05	7,53E-10	1515	

Safety mission time: 20 years

### STANDARDS CONFORMITY

Protection(EN 60529)	IP 66
Humidity (EN 60068-2-38)	93% @ 65°C
Shock (EN60068-2-27)	≤ 500m.s <sup>-2</sup> (during 6 ms)
Vibration (EN60068-2-6)	≤ 200m.s <sup>-2</sup> (10 ... 2 000 Hz)
EMC Immunity Test	EN 61000-6-2,increased levels
EMC Emission Test	EN 61000-6-4,increased levels
Isolation	1000 Veff
Salt Sparay (EN 60068-2-11 part 2)	168h

Functional safety	IEC 61508
	IEC 62061
	ISO 13849-1
	IEC 61800-5-2
	IEC 62061
Encoders usable up to SIL3 / PLe with external specific requirements, see safety user manual for details.	
ZZ/ are not safety signals.	

### ELECTRICAL CONNECTIONS

		0V	+V	A or S	B or C	Z	A/ or S/	B/ or C/	Z/	Ground
G6	M23 - 12 pins CW	1	2	3	4	5	6	7	8	Connector Body
G8	M23 - 12 pins CCW	10 + 11	2 + 12	8	5	3	1	6	4	Connector Body
G3	PVC cable 8 wires 8230/020	WH white	BN brown	GN green	YE yellow	GY grey	PK pink	BU blue	RD red	General shielding
GP	PUR cable 12 wires 8230/050	WH white + WH/GN white /green	BU blue + BN/GN brown / green	GY grey	BN brown	RD red	PK pink	GN green	BK black	General shielding

### AVAILABLE RESOLUTION

1024 2048

### ORDERING REFERENCE (Contact the factory for special versions, ex: shaft size, resolution, connection)

	Shaft Ø	IP	Supply	Output stage	Output signals	Resolution	Connection	Orientation	Reduction hub	Anti-rotation
DSU9X	30: 30mm  Reduction hub available	01:  IP66	Digital signals: 2G2, 5G2, 5G5			2048  max	G6: M23 12 pins CW G8: M23 12 pins CCW  GP: PUR cable 12 wires G3: PVC cable 8 wires	R : radial  Example : R020 : radial cable 2m	** : No reduction hub  U2 : Reduction hub	DW**:  9445/045
			2:5Vdc 5:11 to 30Vdc	G2: driver 5Vdc RS422 G5: push-pull	9: AA/ BB/ ZZ/					
			Sine-wave signals: 2WT, 5WT							
			2: 5Vdc 5:11 to 30Vdc	WT: sine 1Vpp	N: SS/ CC/ ZZ/					
Ex:DSU9X	30 /	01 /	5	G2	9 //	01024 //	GP	R050 //	**	DW**

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