

Mechanical Specifications :

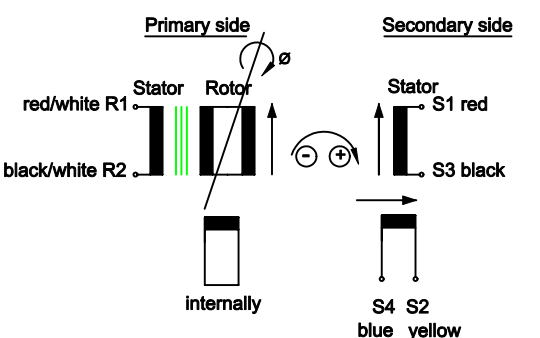
Revolution speed : max. 4.000 1/min
 Radial shaft load : max. 50 N
 Axial shaft load : max. 20 N
 Operation temperature range : -10°C - +100°C
 Storage temperature range : -25°C - +100°C
 Protection class : IP64
 Lifetime : typ. 10E9 revs.
 Mechanical shock : max. 100g
 Vibration : max. 10g @ 50 - 2000 Hz
 Humidity : max. 95% R.H.

Electrical Specifications (incremental) :

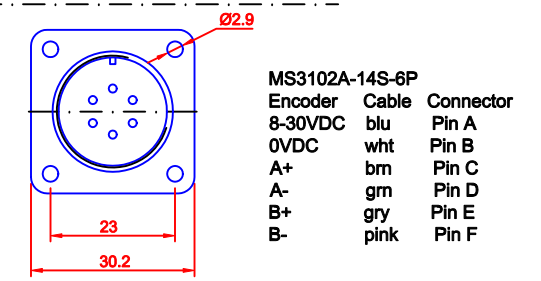
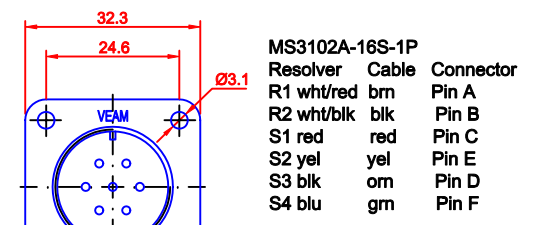
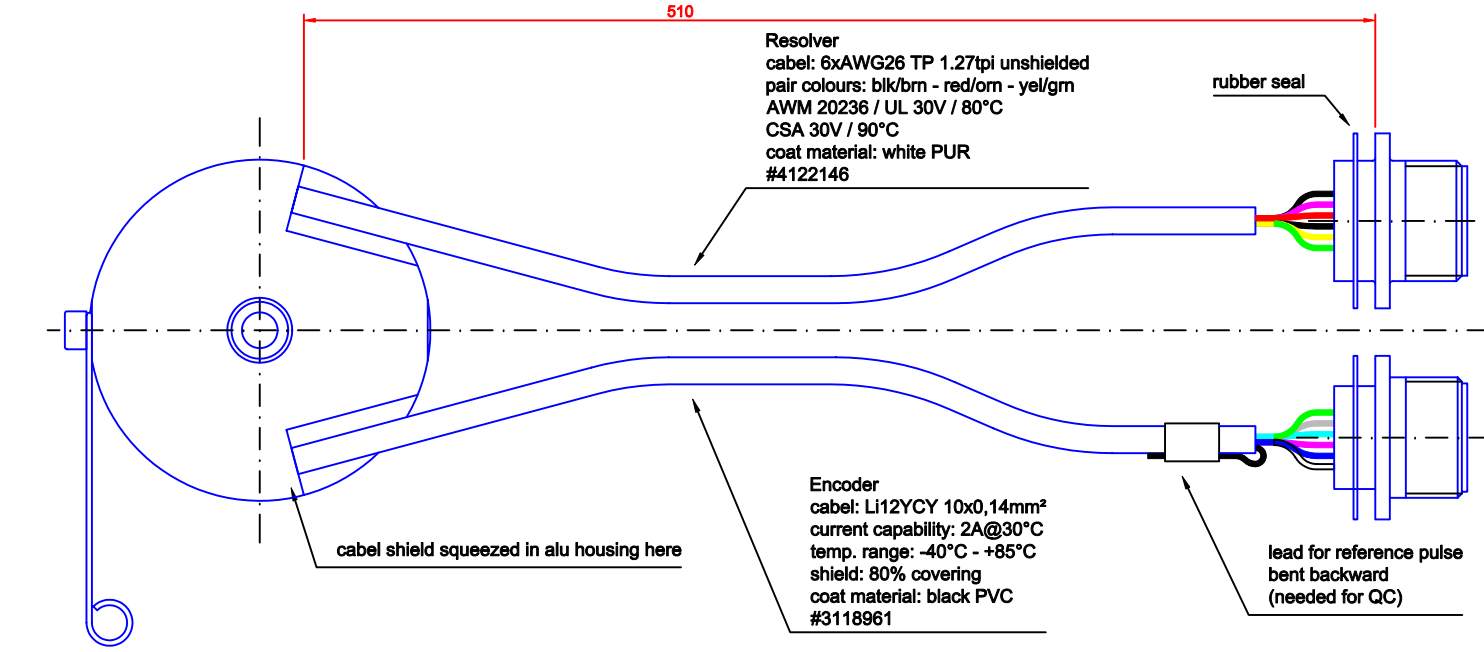
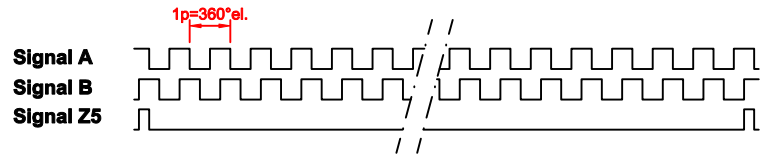
Supply voltage : 8..30 VDC
 Power consumption : <100mA without load
 Output voltage : approx. 6..28 VDC depending on supply
 Source current : <300mA by iC-WE line driver
 Frequency response : max. 200kHz
 Absolute accuracy : <±30 arc sec
 Mark to Space Ratio : 45%-55%
 Phase shift (f<1kHz) : ±10°
 Phase shift (f>1kHz) : ±20°
 N° of signal perodes : 1024, 2048, 4096 or 8192

Electrical Specifications (resolver) :

Primary Side :	R1-R2	R1-R2
Pole Pairs :	1	1
Transformation Ratio :	0.5 ±10%	0.5 ±10%
Input Voltage :	7V rms	7V rms
Input Current :	58mA	36mA
Input Frequency :	5kHz	10kHz
Phase Shift :	8° ±3°	-6° ±3°
max. Null Voltage :	30mV	30mV
Zro :	typ. 75 j 100	typ. 110 j 160
Zrs :	typ. 70 j 85	typ. 96 j 150
Zso :	typ. 180 j 230	typ. 245 j 400
Zss :	typ. 170 j 200	typ. 220 j 370
DC Resistance :		
Rotor :	40 ±10%	
Stator :	102 ±10%	
Accuracy :	±10' / 20' spread	
Operating Temperature :	-25°C -> 110°C	
max. permissible Speed :	2.000 rpm	
Weight :	0,5kg	
Rotor Moment of Inertia :	1,5*10E-4kgm² incl. encoder	
High Pot Test voltage		
Housing / Winding :	500VAC/50Hz/3sec.	
Winding / Winding :	250VAC/50Hz/3sec.	
Rotor and Stator completely impregnated		



Input : E(R1-R2) = E sin(wt)
 Output : E(S1-S3) = Tr x E(R1-R2)cosØ
 E(S2-S4) = Tr x E(R1-R2)sinØ
 Tr=Transformation ratio
 Negative counting direction: Rotor cw as viewed (X →)



3927670: GR7WVKIBI-2048-55E-24HX (IC-WE)
 # 3927709: GR7WVKIBI-8192-55E-24IX (IC-WE)

Oberflächenzustand:		Freimaßtoleranzen DIN 7168-m		Mat.-N°:				
		Formtoleranzen DIN 7184						
h)		Datum	Name	Encoder/Resolver Combo for hoisting machine				
g)		Bearb.	31.03.07			Lechner		
f)	Kleinere Verbesserungen	04.02.08	-An-			Gepr.	04.02.08	Angerpointner
e)	Kabelschema hinzugefügt	07.01.08	-An-			Norm		
d)	Phase eingeschränkt	04.12.07	-An-			Kom.-N°:		
c)	26ET31 entfernt	04.12.07	-An-					
b)	Tastverhältnis normal	20.09.07	-An-					
a)	Tastverhältnis reduziert	14.06.07	-An-					
Zust.	Änderung	Datum	Name	Datel:	GRIGR7WVKIBI-XXXX-55E-24IX	DXF:	04.02.08	

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