

approval for production:	
checked: company & sign	
date	

Mechanical characteristics

Max. speed	6 000 min ⁻¹
Moment of inertia	3 000 min ⁻¹ (continuous)
Starting torque at 20°C	approx. 1.8x10 ⁻⁸ kgm ²
Shaft load capacity	<0,01 Nm
	radial/ 80 N
	axial/ 40 N
Weight	approx. 0,4 kg
Protection acc.to EN 80529	IP65
Working temperature range	-20°C ... +70°C
Material	shaft: stainless steel
	cable: PVC 3x2x0,14mm ²
Schock resistance acc. EN 60068-2-27	1000 m/s ² , 6 ms
Vibration resistance acc. EN 60068-2-6	100 m/s ² , 10...2000 Hz

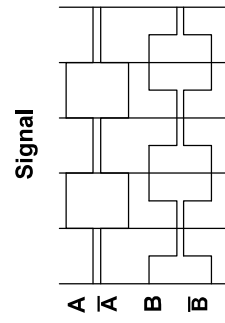
Electrical characteristics

Output circuit:	HTL/TTL universal
order code	2
Power supply	4.7 ... 30 V DC
Power consumption (no load)	typ. 50 mA
	typ. 100 mA
Permissible load / channel	max. +/- 20 mA
Pulse frequency	max. 300 kHz ¹⁾
Signal level	HIGH min. +V - 2.0 V
	LOW max. 0.5 V
Rising edge time t_r	max. 1 µs
Falling edge time t_f	max. 1 µs
Short circuit proof outputs²⁾	yes
Reverse polarity protection of the power supply (V+)	no
CE compliant acc. to	EMC guideline 2014/53/EU
	RoHS guideline 2011/65/EU

1) Max. recommended cable length: 30 m
2) 1 power supply correctly applied

terminal assignment

colour	signal
WH/GN	0 V
BN/GN	+ V
BN	A
GN	$\bar{A}$
GY	B
PK	$\bar{B}$



A leads B,
when shaft is rotated clockwise
and the sensor cable is right side.

difference from standard

Customer		Type	
DG4338		Incremental encoder	
		Order code	①
		Approved by	hl
		Date	13.12.19
		Tolerances unless otherwise specified	2768mmH
1	3144	los	13.12.19
0		al	14.11.19
Ind.	ECN	Drawn by	millimeter

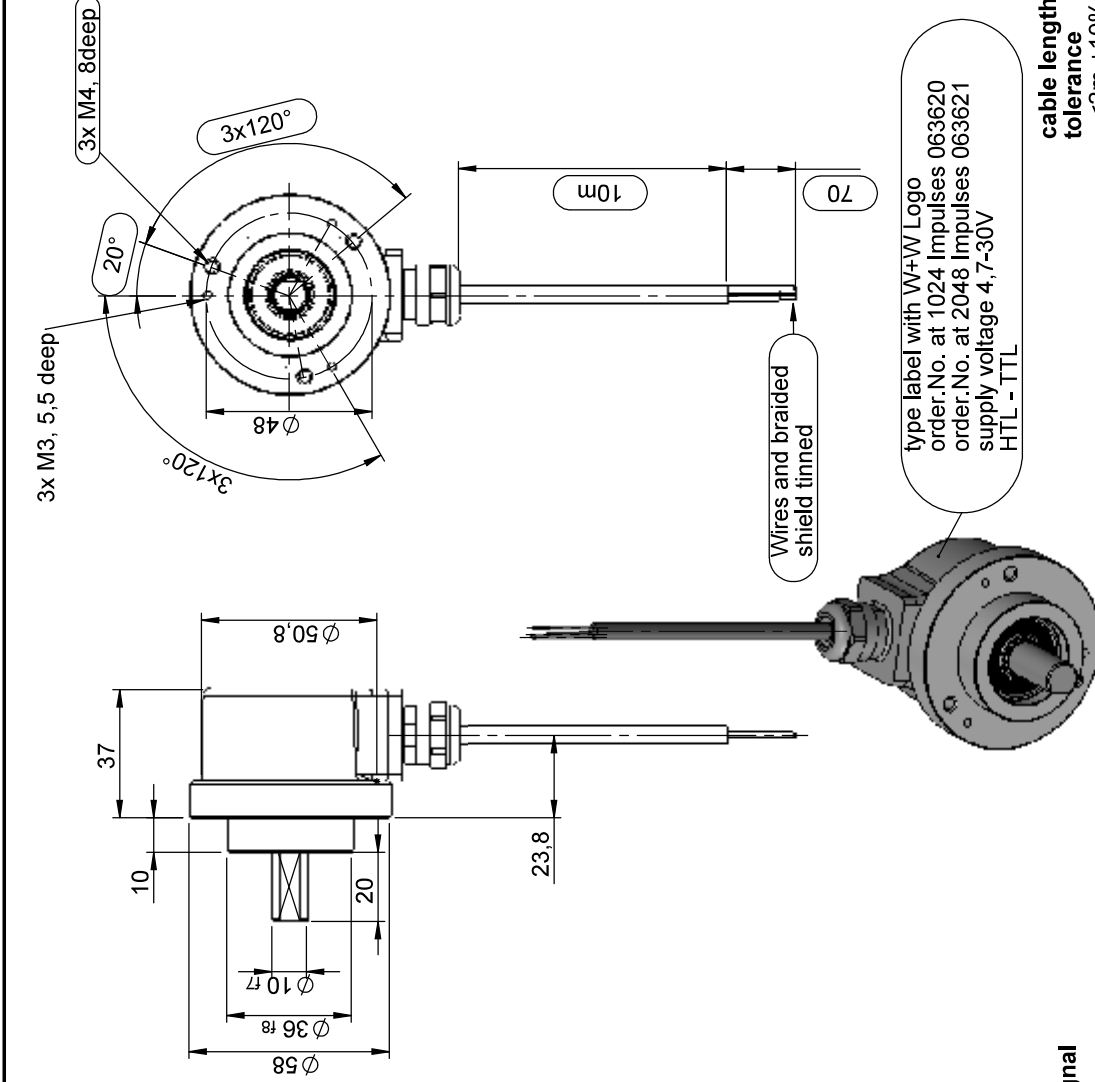
A3550

Customer drawing

Size A4

Scale 1:2

Sheet 2/3



technical subject to modifications

This document is property of Fritz Kübler GmbH.
Use of this document without written permission is prohibited.