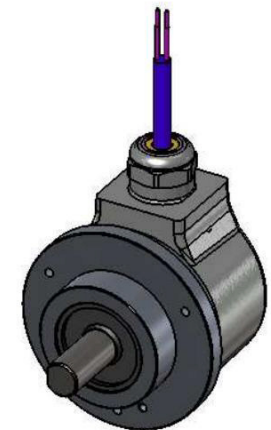
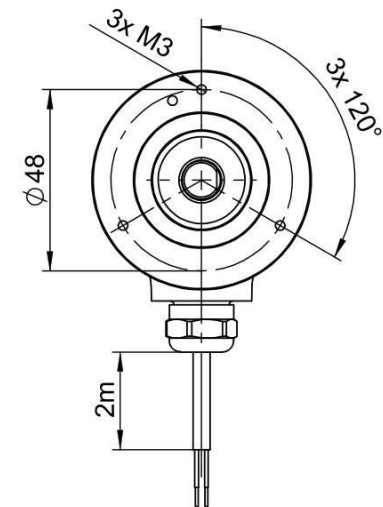
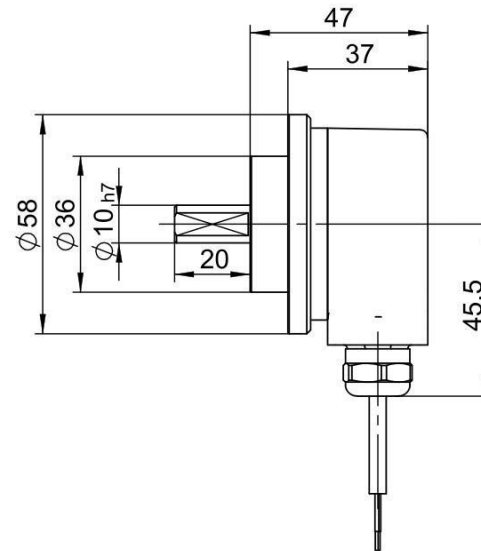


**Mechanical characteristics:**

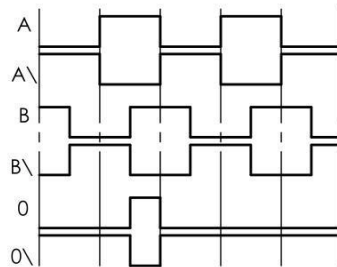
Speed:	6000 min <sup>-1</sup> 3000 min <sup>-1</sup> (continuous)
Rotor moment of inertia:	approx. 1.8x10 <sup>-6</sup> kgm <sup>2</sup>
Starting torque:	< 0.05 Nm
Radial load capacity shaft:	80 N
Axial load capacity shaft:	40 N
Weight:	approx. 0.4 kg
Protection acc. to EN 60 529:	IP 67
Working temperature:	- 20° C ... + 85° C
Shaft:	stainless steel
Shock resistance acc. to EN 60068-2-27:	2500m/s <sup>2</sup> , 6ms
Vibration resistance acc. to EN 60068-2-6:	100m/s <sup>2</sup> , 10...2000 Hz

**Electrical characteristics:**


Output circuit:	Push-pull
Supply voltage:	10...30V DC
Power consumption	typ. 50 mA /
with inverted signal (no load):	max. 100 mA
Permissible load/channel:	max. ±20 mA
Pulse frequency:	max. 300 kHz
Signal level high:	min. U <sub>b</sub> - 1 V
Signal level low:	max. 0.5 V
Rise time t <sub>r</sub> :	max. 1 μs
Fall time t <sub>f</sub> :	max. 1 μs
Short circuit proof outputs <sup>1)</sup> :	yes
Reverse connection protection at UB:	yes
UL-certified:	File 224618
CE compliant acc. to	EN 61000-6-2, EN 61000-6-4 and EN 61000-6-3
RoHS compliant acc. to	EU guideline 2002/95/EG

**Terminal assignment:**

Cable	
Colour	Signal
WH	0V GND
BN	+UB
GY PK	0V Sens
RD BU	+UB Sens
GN	A
YE	A\
GY	B
PK	B\
BU	0
RD	0\

**Signal:**

A leads B when shaft is rotated clockwise  
viewing the encoder shaft end

			Unit of measurement millimeter	I.R electric	 Fritz Kübler GmbH Zähl- und Sensortechnik 78054 VS-Schwenningen	
			Tolerances unless otherwise specified	Customer Type:		Kübler Type: 8.5000.735B.1024.0020
0	17.11.11	ih	scale 1:2	ISO 2768 mH	Incremental Encoder	
Index	Date	Name			drawing ID: A1987	
					customer drawing 1	Sheet 12

## Kübler Incremental encoder 결선도

시그널	0V(GND)	0V(Sens)	UB (전원)	Ub(Sens)	A	A/	B	B/	0(Z)	O/(Z/)	Shield
cable	WH	GY+PK	BN	RD+BU	GN	YE	GY	PK	BU	RD	<b>실드선은 반드시 접지시켜야 함.</b>
색상	흰색	회색+분홍	갈색	빨강+파랑	녹색	노랑	회색	분홍	파랑	빨강	
참조	<p><b>0V(GND)와 0V(Sens) 단락하여 0V에 연결, UB와 Ub(Sens) 단락하여 전원에 연결.</b></p> <p>: Encoder 내에서는 연결되어 있으나 결선시 Sens를 연결하지 않았을때 그 선을 통해 Noise가 발생할 수 있으므로 연결하여 사용할 것.</p>										

