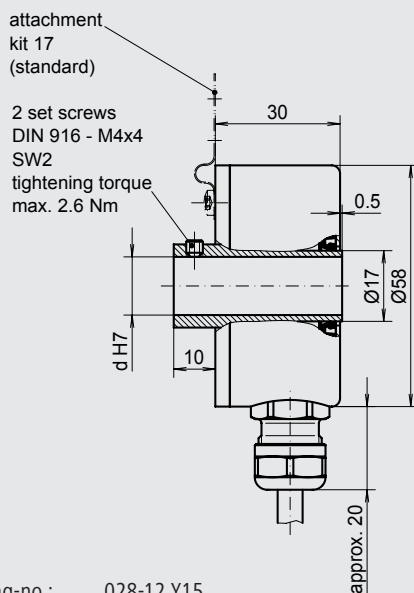


Incremental encoder with magnetic scanning

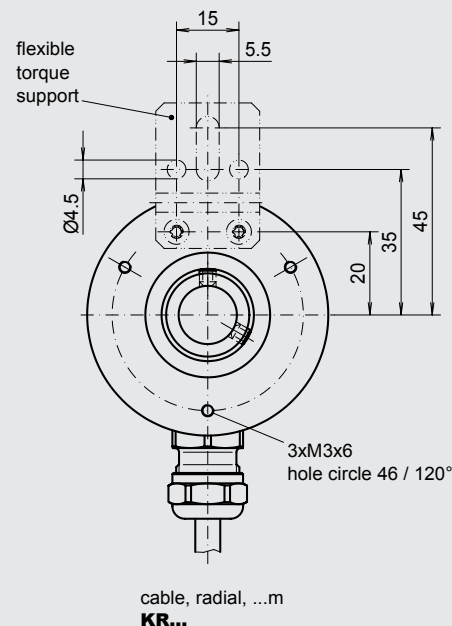


Features

- Low cost hollow shaft incremental encoder, with magnetic scanning
- HTL- output signals
- Cable outlet radial



drawing-no.: 028-12 Y15



Mechanical data

Design	A 4		A 4
Attachment kit	17	standard, (ref. data sheet »Attachment kit's ...«)	17
Housing	aluminium, unpainted		
Protection	IP 65	according to DIN EN 60 529	IP65
Construction principle	pole ring with magnetic scanning		
max. revolution (mechanical)	$n_{\max} \leq 6000 \text{ min}^{-1}$		
Permissible motor-shaft play	axial $\leq 0.25 \text{ mm}$ radial $\leq 0.1 \text{ mm}$		
Vibration	55... 2000 Hz $\leq 100 \text{ m/s}^2$	according to DIN IEC 60 068, part 2 - 6	
Shock	11 ms $\leq 1000 \text{ m/s}^2$	according to DIN IEC 60 068, part 2 - 27	
Hollow shaft diameter	d 14 mm	(standard), 9 mm, 10 mm, 11 mm, 12 mm possible	14
Weight	approx. 220 g		

Electrical data

Number of pulses	Z 1, 4, 8, 16, 20, 32 pulses/rev.	XXXX
Electronic version (output signals)	HTL Push pull-output stage (short-circuit proof), supply voltage: $U_B = 8 - 26$ VDC (polarity protected), output amplitude: $U_{LOW} \leq 1.5$ V, $U_{HIGH} \geq U_B - 3$ V	H
Output signals	A 1 square wave train	AX
Output load current	$I_{load} \leq 20$ mA (per track)	
Current consumption (no load)	$I_{max} \leq 20$ mA	
Permissible cable length	≤ 15 m (Baumer Thalheim cable)	
Type of connection	cable, radial, 1.0 m (standard length)	KR1
Operating temperature range	-20 °C to +85 °C	S
Permissible relative humidity	≤ 90 % (condensation not permitted)	

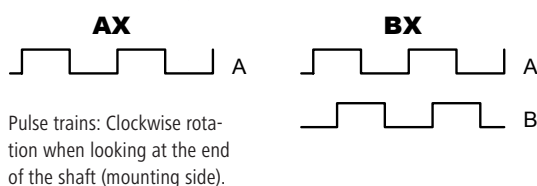
Options

Output signals	A, B 2 square wave pulse trains, electr. phase shifted 90°	BX
Type of connection	connector performed at cable, (ref. data sheet »Type of performed cables«)	...

Connection table

wire color	signals
green	A
grey	B
brown	+ U_B
white	0 V
transparent	shielding/housing

Output signal diagram



Ordering example:

ITD 27 Incremental encoder ITD 27	A 4 Design A 4	Y15 Mechanical variant Y15 = look at the drawing	4 Number of pulses 4 pulses/revolution	H Electronic version $U_B = 8 - 26$ VDC HTL	BX Output signals A; B-track	KR1 Type of connection cable, radial, 1 m	S Operating temperature range -20 °C to +85 °C	14 Hollow shaft diameter 14 mm	IP65 Protection IP65	17 Attachment kit variant 17
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