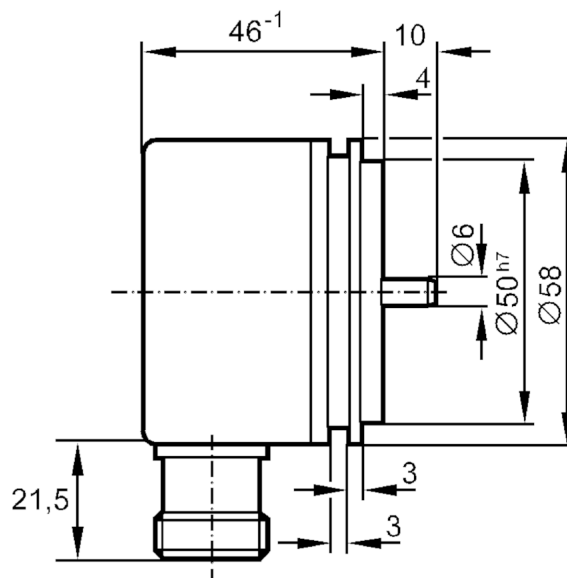




Incremental encoder with solid shaft

RU-4096-I05/K

Article no longer available - archive entry



- 1 reference mark
- 2 M4 Depth 5 mm



Product characteristics

Resolution	4096 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

Application

Function principle	incremental
--------------------	-------------

Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	150

Outputs

Electrical design	TTL
Max. current load per output [mA]	20
Switching frequency [kHz]	300
Phase difference A and B [°]	90

Measuring/setting range

Resolution	4096 resolution
------------	-----------------

Operating conditions

Ambient temperature [°C]	-30...100
Note on ambient temperature	for firmly laid cable: -30 °C



Incremental encoder with solid shaft

RU-4096-I05/K

Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64

Tests / approvals

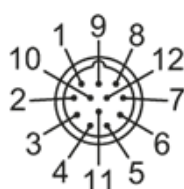
Shock resistance		100 g (6 ms)
Vibration resistance		15 g (55...2000 Hz)

Mechanical data

Weight	[g]	422.4
Dimensions	[mm]	Ø 58 / L = 56
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Fixing flange		synchro-flange

Electrical connection

Connector: 1 x M23 (ifm 1001.4), radial



pink (1)	B inverted
blue (2)	L+ sensor
red (3)	0 index
black (4)	0 index inverted
brown (5)	A
green (6)	A inverted
lilac (7)	failure inverted
grey (8)	B
pin 9	n.c.
white/green (10)	0V
white (11)	0V sensor
brown/green (12)	L+
Screen	housing



Incremental encoder with solid shaft

RU-4096-I05/K

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)