

RB3500



Incremental encoder with solid shaft

INCREMENTAL ENCODER BASIC LINE

Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
	Function	Device diagnosis
SIO mode	yes	
Min. process cycle time [ms]	2.3	
Supported DeviceIDs	Type of operation	DeviceID
	default	499

Operating conditions		
Ambient temperature [°C]	-40...80	
Note on ambient temperature	for flexibly laid cable: -25 °C	
Storage temperature [°C]	-40...80	
Max. relative air humidity [%]	95; (condensation not permissible)	
Protection	IP 65; IP 66; (on the housing: IP 67; on the shaft: IP 64)	

Tests / approvals		
Shock resistance	100 g	
Vibration resistance	20 g	
MTTF [years]	292	

Mechanical data		
Weight [g]	293	
Housing	cylindrical	
Dimensions [mm]	Ø 36.5 / L = 65	
Materials	flange: aluminium; housing: stainless steel (444/1.4521); cable plug: PA	
Max. revolution, mechanical [U/min]	12000	
Max. starting torque [Nm]	0.01	
Reference temperature torque [°C]	20	
Shaft design	solid shaft	
Shaft diameter [mm]	6	
Shaft material	stainless steel	
Max. shaft load axial (at the shaft end) [N]	40	
Max. shaft load radial (at the shaft end) [N]	60	
Fixing flange	Ø 36.5 mm	

Remarks		
Pack quantity	1 pcs.	



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Electrical connection

Cable: 2 m, Ø 4.9 mm; radial, can also be used axially; 5 x 0.14 mm²

IO-Link

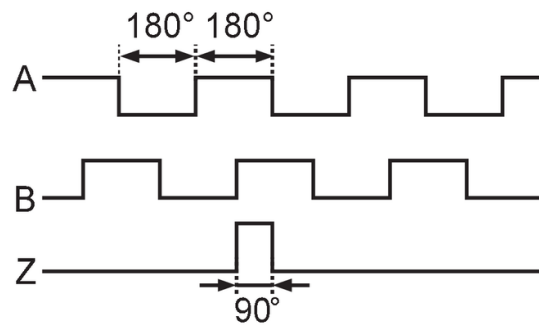
brown	L+
white	not to be used
blue	L-
grey	not to be used
black	IO-Link
Screen	housing

encoder

brown	UB
white	A
blue	GND
grey	B
black	Z/0-Pulse (90 deg)
Screen	housing

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)