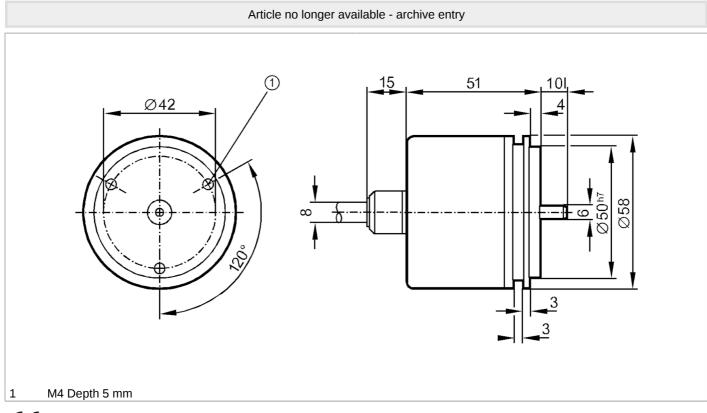
## RN6014

#### Absolute singleturn encoder with solid shaft



RN-0360-G24/L1A



# **C € °\$1**<sup>0</sup>"

Product characteristics				
Resolution		360 steps; 9 bit		
Shaft design		solid shaft		
Shaft diameter	[mm]	6		
Electrical data				
Operating voltage	[V]	1030 DC		
Current consumption	[mA]	< 150		
Max. revolution electrical	[U/min]	6000		
Outputs				
Electrical design		HTL		
Max. current load per output	t [mA]	20		
Code		Gray code; (increasing code values when turned clockwise (seen on the shaft))		
Measuring/setting range				
Resolution		360 steps; 9 bit		
Operating conditions				
Ambient temperature	[°C]	-2070		
Storage temperature	[°C]	-30100		
Max. relative air humidity	[%]	98		
Protection		IP 65		
Tests / approvals				
Shock resistance		100 g (6 ms)		

## RN6014

### Absolute singleturn encoder with solid shaft



RN-0360-G24/L1A

Mechanical data         Dimensions       [mm]       Ø 58 / L = 76         Materials       aluminium         Max. revolution, mechanical [U/min]       10000         Max. starting torque       [Nm]       1         Reference temperature       [°C]       20         Shaft design       solid shaft         Shaft design       solid shaft         Shaft diameter       [mm]         6       steel (1.4104)         Max. shaft load axial (at the [N] shaft end)       10         Max. shaft load radial (at the [N] shaft end)       20         Electrical connection       20         Cable: 1 m, PUR; Maximum cable length: 100 m; axial       20         brown       1030V         yellow/brown       1030V sensor         white/yellow       0V sensor         green       release A inverted 530V	Vibration resistance	10 g (552000 Hz)			
Dimensions         [mm]         Ø 58 / L = 76           Materials         aluminium           Max. revolution, mechanical [U/min]         10000           Max. starting torque         [Nm]           Reference temperature         [°C]           torque         20           Shaft design         20           Shaft diameter         [mm]           Shaft diameter         [mm]           Shaft diameter         [mm]           Max. shaft load axial (at the         [N]           Max. shaft load radial (at the         [N]           Max. shaft load radial (at the         [N]           Shaft end)         20           Cable: 1 m, PUR; Maximum cable length: 100 m; axial         20           brown         1030V           yellow/brown         1030V           yellow/brown         0V           white         0V           white/yellow         0V sensor	Mechanical data				
Max. revolution, mechanical [U/min]       10000         Max. starting torque       [Nm]         Reference temperature       [°C]         torque       20         Shaft design       20         Shaft design       solid shaft         Shaft diameter       [mm]         Shaft daimeter       [mm]         Shaft naterial       steel (1.4104)         Max. shaft load axial (at the [N] shaft end)       10         Max. shaft load radial (at the [N] shaft end)       20         Electrical connection       20         Cable: 1 m, PUR; Maximum cable length: 100 m; axial       20         brown       1030V yellow/brown       1030V sensor         white /yellow       0V sensor       V		Ø 58 / L = 76			
Max. starting torque[Nm]1Reference temperature[°C]20torque20Shaft designSolid shaftShaft diameter[mm]Shaft diameter[mm]Shaft naterialSteel (1.4104)Max. shaft load axial (at the[N]shaft end)10Max. shaft load radial (at the[N]shaft end)20Electrical connectionCable: 1 m, PUR; Maximum cable length: 100 m; axialbrown1030Vyellow/brown1030V sensorwhite0Vwhite/yellow0V sensor	Materials	aluminium			
Max. starting torque         [Nm]         1           Reference temperature         [°C]         20           Shaft design         20           Shaft design         solid shaft           Shaft diameter         [mm]           Shaft diameter         [mm]           Shaft diameter         [mm]           Shaft diameter         [mm]           Shaft naterial         6           Shaft load axial (at the [N] shaft end)         10           Max. shaft load radial (at the [N] shaft end)         20           Shaft end)         20           Electrical connection         20           Cable: 1 m, PUR; Maximum cable length: 100 m; axial         20           brown         1030V           yellow/brown         1030V sensor           white         0V           white         0V	Max. revolution, mechanical [U/min]	10000			
Reference temperature       [°C]         torque       20         Shaft design       solid shaft         Shaft diameter       [mm]         Shaft material       6         Shaft naterial       steel (1.4104)         Max. shaft load axial (at the [N] shaft end)       10         Max. shaft load radial (at the [N] shaft end)       20         Electrical connection       20         Cable: 1 m, PUR; Maximum cable length: 100 m; axial       10 m; axial         brown       1030V sensor         yellow/brown       1030V sensor         white       0V         white/yellow       0V sensor					
Shaft design solid shaft   Shaft diameter [mm]   Shaft material 6   Shaft material steel (1.4104)   Max. shaft load axial (at the [N] shaft end) 10   Max. shaft load radial (at the [N] shaft end) 20     Electrical connection   Cable: 1 m, PUR; Maximum cable length: 100 m; axial   brown 1030V   yellow/brown 1030V sensor   white 0V   white/yellow 0V sensor	Reference temperature [°C]				
Shaft material steel (1.4104)   Max. shaft load axial (at the [N] shaft end) 10   Max. shaft load radial (at the [N] shaft end) 20     Electrical connection   Cable: 1 m, PUR; Maximum cable length: 100 m; axial   brown 1030V   yellow/brown 1030V sensor   white 0V   white/yellow 0V sensor		solid shaft			
Max. shaft load axial (at the [N] shaft end)       10         Max. shaft load radial (at the [N] shaft end)       20         Electrical connection         Cable: 1 m, PUR; Maximum cable length: 100 m; axial         brown       1030V         yellow/brown       1030V sensor         white       0V         white/yellow       0V sensor	Shaft diameter [mm]	6			
Max. shaft load axial (at the [N] shaft end)       10         Max. shaft load radial (at the [N] shaft end)       20         Electrical connection         Cable: 1 m, PUR; Maximum cable length: 100 m; axial         brown       1030V         yellow/brown       1030V sensor         white       0V         white/yellow       0V sensor	Shaft material	steel (1.4104)			
shaft end)     20       Electrical connection     Cable: 1 m, PUR; Maximum cable length: 100 m; axial       brown     1030V       yellow/brown     1030V sensor       white     0V       white/yellow     0V sensor					
Cable: 1 m, PUR; Maximum cable length: 100 m; axialbrown1030Vyellow/brown1030V sensorwhite0Vwhite/yellow0V sensor		20			
brown 1030V yellow/brown 1030V sensor white 0V white/yellow 0V sensor	Electrical connection				
yellow/brown1030V sensorwhite0Vwhite/yellow0V sensor	Cable: 1 m, PUR; Maximum cable length: 100 m; axial				
yellowrelease B inverted 530Vwhite/greybit 9 (MSB) invertedbrown/greenbit 9 (MSB)white/greenbit 8red/bluebit 7grey/pinkbit 6lilacbit 5blackbit 4redbit 3bluebit 2pinkbit 1Screenhousing	yellow/brown1030V sensorwhiteOVwhite/yellowOV sensorgreenrelease A inverteryellowrelease B inverterwhite/greybit 9 (MSB) inverterbrown/greenbit 9 (MSB)white/greenbit 8red/bluebit 7grey/pinkbit 6lilacbit 5blackbit 4redbit 3bluebit 2pinkbit 1Screenhousing	d 530V			
Diagrams and graphs					
Pulse diagram	Pulse diagram	release B inverted			
tracks 12		ITACKS 12			