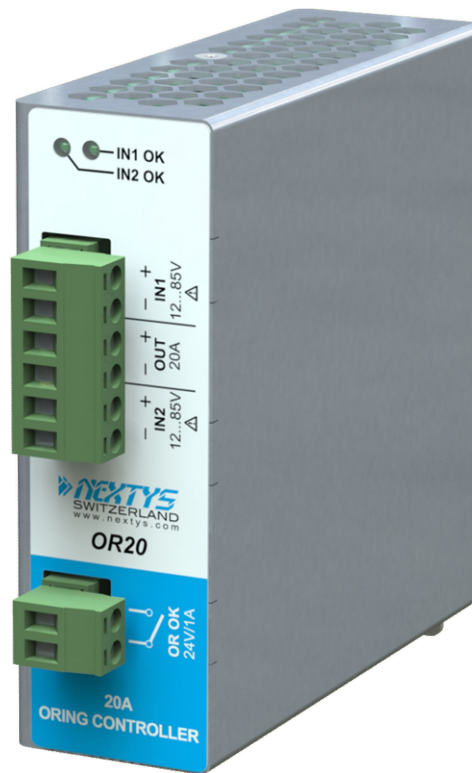


OR20 Oring Controller

ORING CONTROLLER 12-85V 20A low loss



■ Main Features

- ┆ Wide input voltage range: 12...85Vdc
- ┆ Extremely low loss - up to 99% efficiency
- ┆ Ultra compact
- ┆ Pluggable connectors
- ┆ Up to 70°C operating temperature with no derating

OR20 Oring Controller

ORING CONTROLLER 12-85V 20A low loss



TECHNICAL DATA

TECHNICAL DATA		OR20	
Model type			
OUTPUT DATA			
Rated voltage	12...85Vdc		
Continuous current	20A		
Peak output current	> 100A		
Conduction resistance	< 9mΩ		
INPUT DATA			
Input DC rated voltage	12...85Vdc		
Input DC rated current	20A		
Standby power	< 0.2W		
Input protections	<ul style="list-style-type: none">Overvoltage ≥ 100VdcReverse polarity connection		
USER INTERFACE			
Status Signals	<ul style="list-style-type: none">IN1 OK - green LEDIN2 OK - green LEDRedundancy available when IN1 OK & IN2 OK simultaneouslyOR OK - dry contact (NO, 24Vdc / 1A)		
GENERAL DATA			
Dissipated power	< 4W		
Operating temperature ¹	- 40°C...+ 70°C		
Derating	No derating		
Storage temperature	- 40°C...+ 80°C		
Humidity	5...95% r.H. non condensing		
Cooling	Natural convection		
Life time expectation	354'655h (40.5 years) at 25°C ambient full load		
Overvoltage category	<ul style="list-style-type: none">EN50178	I	
Pollution degree	<ul style="list-style-type: none">IEC60664-1	2	
Insulation enclosure to live parts	0.75kVdc		
Safety Standards	<ul style="list-style-type: none">UL508EN60950EN50178	(reference)	(reference)
EMC Emission	<ul style="list-style-type: none">EN55011 (CISPR11)EN55022 (CISPR22)	Class A	Class A
EMC Immunity	<ul style="list-style-type: none">EN61000-4-2EN61000-4-3EN61000-4-4EN61000-4-5EN61000-4-11	Level 3	Level 3
Protection degree	<ul style="list-style-type: none">EN60529	IP20	
Vibration sinusoidal	<ul style="list-style-type: none">IEC 60068-2-6	(5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)	
Shock	<ul style="list-style-type: none">IEC 60068-2-27	(30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)	
Connection terminals Input/Output	2.5mm², screw type pluggable (24...12AWG)		
Connection dry contact signal	2.5mm², screw type pluggable (24...12AWG)		
Case material	Aluminum		
Weight	0.25kg		
Size (W x H x D)	35.0 x 103.0 x 104.0mm		

1) Start-up type tested: - 40°C, possible at nominal voltage with load deration.

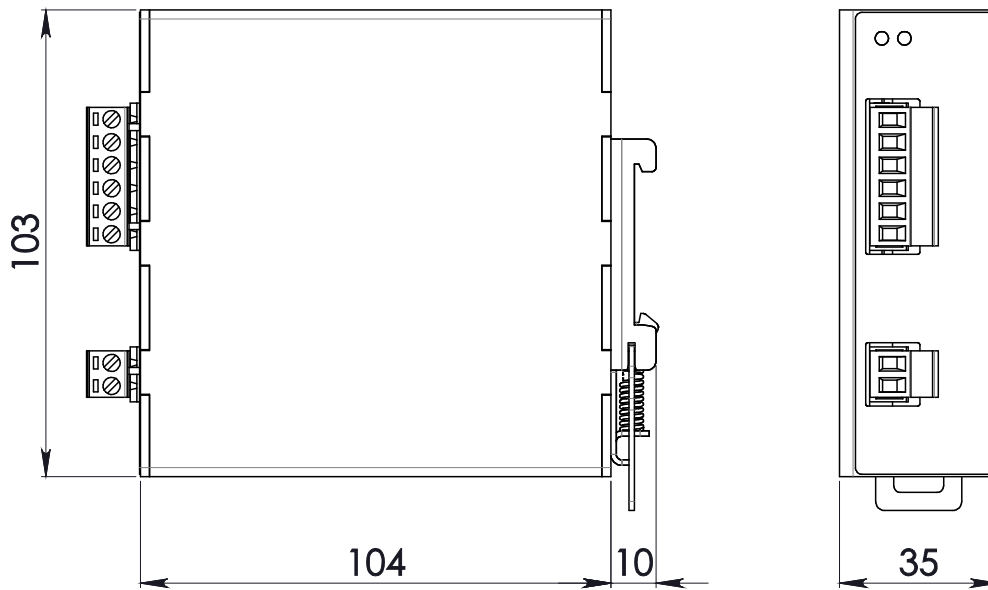
Notes:

- Technical parameters are typical, measured in laboratory environment at 25°C and 24Vdc, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.

OR20 Oring Controller

ORING CONTROLLER 12-85V 20A low loss

DIMENSIONS



CONNECTION



Input Connection:

- IN1 + = Positive DC (Power Supply)
- IN1 - = Negative DC (Power Supply)
- IN2 + = Positive DC (Power Supply)
- IN2 - = Negative DC (Power Supply)

Output Connection:

- OUT + = Positive DC (Load)
- OUT - = Negative DC (Load)

Signalling:

OR OK: dry contact

- NO
- COM