High Functionality

Webinfo 4 Easy

Isolation Signal Splitter DN 22000

Conversion, Isolation And Distribution Of Standard Signals

With the Isolation Signal Splitter DN 22000 DRAGO is extending its offer on high-functional and high-reliable components of the interface technique.

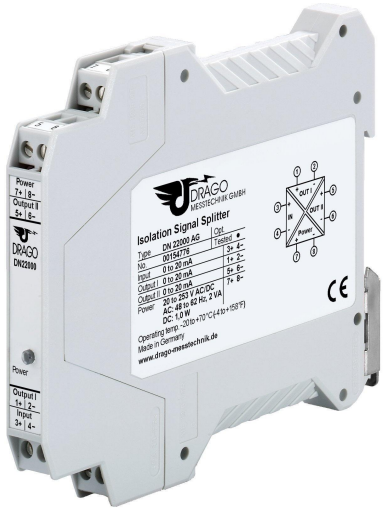
The Isolation Signal Splitter DN 22000 is used for isolation, conversion and distribution of 0/4 ... 20 mA and 0 ... 5/10 V standard signals. The input and two outputs each can be separately configured. The signal combination is selected by the Order No. Its high level of reliability, extremely compact form, and cost optimized design make the DN 22000 the first choice in its class!

The slim housing with 12.5 mm width saves space in the switch cabinet and facilitates by the practical plug-in screw terminal blocks the assembly. A green LED on the front of the unit has been provided to monitor the power supply.

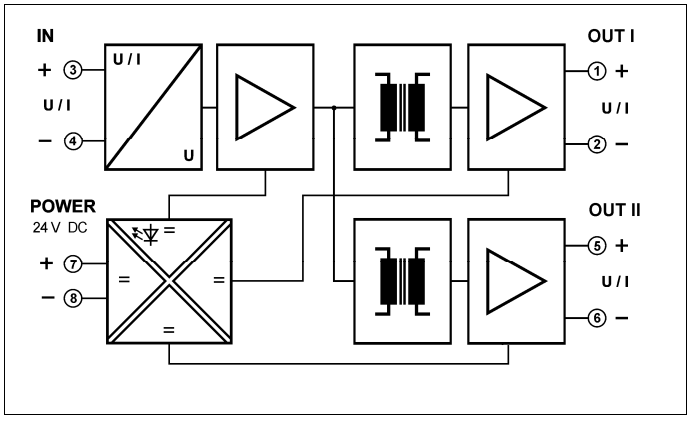
The Protective Separation with high isolation level provides protection for personnel and downstream devices against impermissibly high voltage and make the DN 22000 universally applicable for all measurement and industrial applications.

- **Fixed ranges**
  Ready to use without any settings
- **4-Port Isolation**
  Protection against erroneous measurements due to parasitic voltages or ground loops
- **Ultra-small-sized housing**
  12.5 mm housing with plug-in screw terminal blocks
- **High accuracy**
  No falsification of measured signal
- **Protective Separation acc. to EN 61140**
  Protects service personnel and downstream devices against impermissibly high voltage
- **Maximum reliability**
  No maintenance costs
- **5 Years Warranty**

5 Years Warranty
Defects occurring within 5 years from delivery are remedied free of charge at our plant (carriage and insurance paid by sender).



Block diagram



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Technical Data

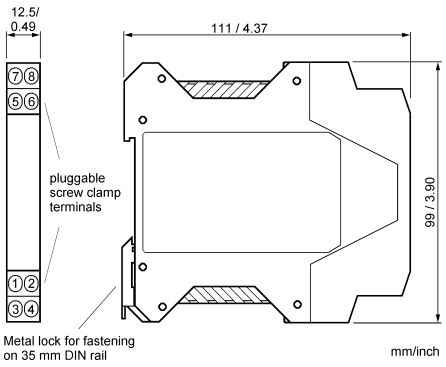
Input					
Input signal	0 ... 20 mA	4 ... 20 mA	0 ... 5 V	0 ... 10 V	See order information
Input resistance	Current input		30 Ω		
	Voltage input		500 kΩ		
Overload	Current input		≤ 200 mA		
	Voltage input		≤ 30 V		
Output I Output II					
Output signal	0 ... 20 mA	4 ... 20 mA	0 ... 5 V	0 ... 10 V	See order information
Load	Current output		≤ 10 V	(500 Ω @ 20 mA)	
	Voltage output		≤ 5 mA	(2 kΩ @ 10 V)	
Offset	20 µA, 10 mV				
Ripple	< 10 mV_{rms}				
General Data					
Transmission error	< 0.1 %				
Temperature coefficient[1]	< 0.015 % of final value/K				
Response time	< 5 ms				
Test voltage	2.5 kV, 50 Hz		Input against Output I against Output II against power supply		
Working voltage[2] (Basic Insulation)	Up to 600 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1 between all circuits.				
Protection against electrical shock[2]	Protective separation according to EN 61140 by reinforced insulation in accordance with EN 61010-1 up to 300 V AC/DC for overvoltage category II and pollution degree 2 between all circuits.				
Ambient temperature	Operation		0 to +55 °C	(+32 to +131 °F)	
	Transport and storage		-25 to +80 °C	(-13 to +176 °F)	
Power supply	80 … 240 V AC, ± 10 %, 48 … 62 Hz			approx. 3 VA	
See order information	24 V DC (working range : 20 … 30 V DC)			approx. 1,5 W	
EMC[3]	EN61326 -1				
Construction	12.5 mm housing, protection class: IP 20				
Weight	Approx. 100 g				

1) Average TC in specified operating temperature range
2) As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.
3) Minor deviations possible during interference

Product line

Item		Order No.			
Isolation Signal Splitter		DN 22 -	X	X	X - X
	80 … 240 V AC		↓		- MP
	24 V DC		↓		- LV
Input	0 ... 20 mA		0		
	4 ... 20 mA		1		
	0 ... 5 V		2		
	0 ... 10 V		3	↓	
Output I	0 ... 20 mA			0	
	4 ... 20 mA			1	
	0 ... 5 V			2	
	0 ... 10 V			3	↓
Output II	0 ... 20 mA				0
	4 ... 20 mA				1
	0 ... 5 V				2
	0 ... 10 V				3

Dimensions



Terminal assignments

Wire cross-section max. 2.5 mm²
Multi-wire connection max. 1 mm²
(two wires with same cross-section)

1	Output I	+	5	Output II	+
2	Output I	-	6	Output II	-
3	Input	+	7	Power supply	+
4	Input	-	8	Power supply	-

Subject to change!