# DVM58N-011AGR0BY-1213



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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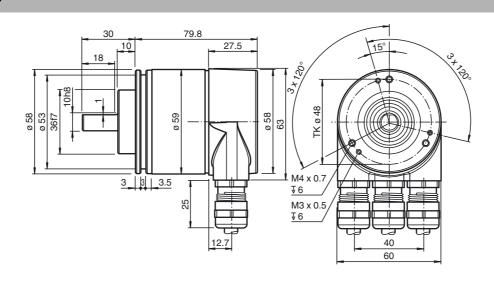
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**EPPERL+FUCHS** 1

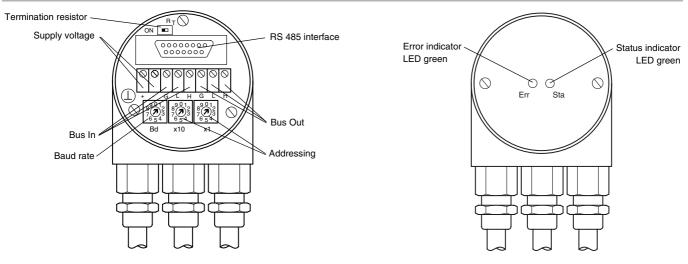
## Dimensions



## **Electrical connection**

Terminal	Explanation		
1	Ground connection for power supply		
(+)	Power supply		
(-)	Power supply		
CG	CAN ground		
CL	CAN low		
СН	CAN high		
CG	CG CAN ground		
CL	CAN low		
СН	CAN high		

### Indicating and operating elements



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## Adjusting the participant address

The participant address can be adjusted with the rotary switches. The address can be defined between 1 and 63, and may only be assigned once.

## Adjusting the termination resistor

The terminating resistor  $R_T\,(121~\Omega)$  can be connected to the circuit by means of the switch:



ON Iast participant

x1

x10

### **Baud rate adjustment**

Baud rate [kBit/s]	Switch position
125	0
250	1
500	2
125	3
reserved	4 9

### **LED-indicators**

LED red	LED green	Meaning	
off	off	No voltage supply	
off	on Encoder ready, boot-up message not transmitted, yet. Possible reasons:		
		- no further participant present	
		- wrong baud rate	
		- encoder in prepared status	
flashing	on	Boot-up message transmitted, Device configuration possible.	
on	on	Normal operation mode, encoder in operational status.	

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### **CAN** operating mode

The operating mode of this encoder is set to "Polled mode". The connected host requests the current actual position value via a telegram. The absolute encoder reads in the current position, calculates all parameters that may have been set and then sends back the actual process value.

Programmable rotary encoder parameters				
Parameter	Explanation			
Operating parameter	The direction of rotation (complement) can be specified by parameter as the operating parameter. This parameter determines the direction of rotation in which the output code will be rising or descending.			
Resolution per revolution	The "Resolution" parameter is used to program the rotary encoder so that a desired number of steps can be implemented in reference to a revolution.			
Overall resolution This parameter indicates the desired number of measurement units of the entire travel length.   Overall resolution not exceed the overall resolution of the absolute encoder. If the absolute encoder is used in information overall resolution parameter can only take on values that are powers of 2 (2x).				
Preset value	The preset value is the desired position value that must be achieved for a specific physical setting of the axis. The preset value parameter is used to set the actual position value to the desired actual process value.			

#### **Device specific encoder parameters**

Class code: 66 Hex Instance: 01 Hex

Attribute ID	Access	Name	Data type	Description
92 hex	Get/Set	Code sequence	Boolean	Controls the code sequence clockwise or counterclockwise
93 hex	Get/Set	Resolution per revolution	INT	Resolution for one revolution
94 hex	Get/Set	Total resolution	DINT	Total measurable resolution
95 hex	Get/Set	Preset value	DINT	Setting a defined position value
96 hex	Get	Position value	DINT	Current position

### Auto-saving function

This encoder saves the programmed parameters directly from the configuration tool into the non-volatile memory. No additional command is required.

#### Order code

