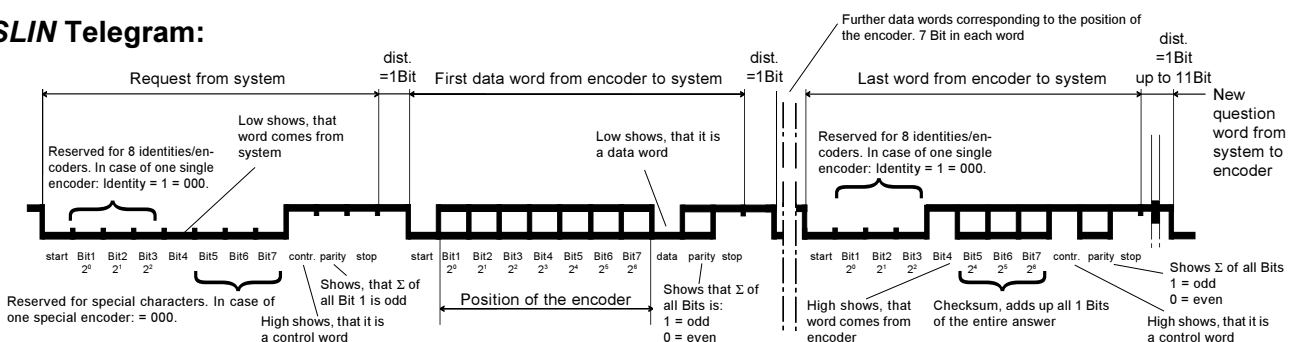## SLIN

- **For SVE 10, SVM 10 and SHE 88**
- **Inputs for LATCH, TRISTATE and PRESET**
- **Counting direction selection**
- **Watchdog-output**
- **Output data in Gray, Gray Excess, Binary or BCD Code**
- **Resolution per DIP-switch optional**

CE

Electrical characteristics:

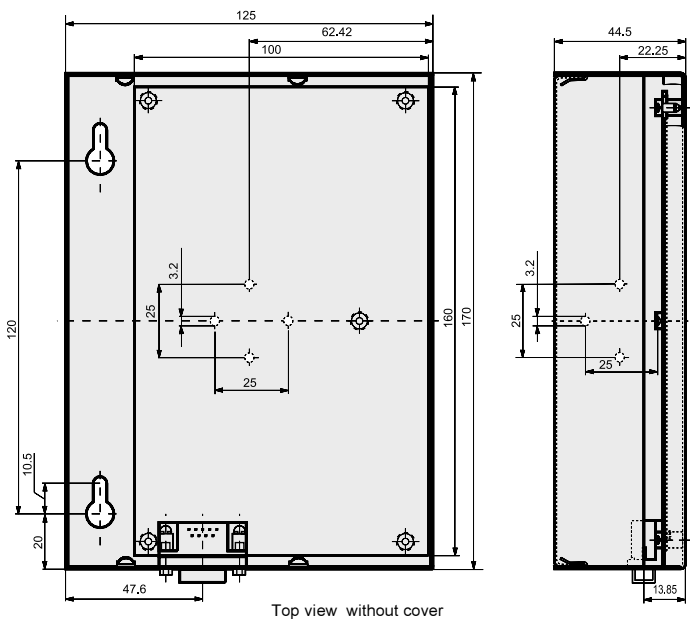| Resolution	[bit]	25
Operating voltage U_B	[V]	18 ... 32
Maximum current consumption	[mA]	120
Maximum power dissipation (no load)	[W]	4.5
Serial interface:		
Interface		RS 485
Telegram		*SLIN*-protocol
Baud rate	[kBd]	115
Watchdog-output		"1: communication between encoder and
		Module 25 bit is error free. Output data is valid.
		"0": output data is invalid
Encoder supply		18 V ... 32 V, I_{max} = 150 mA
+ 5 V (Iso)		+ 5 V potential free, I_{max} = 5 mA
		for connection of terminating resistors
GND (Iso)		Reference potential for + 5 V (Iso)
		for connection of terminating resistors
Parallel interface:		
Push-pull outputs I_{max}	[mA]	40, short circuit protected
Voltage drop U_d	[V]	2
Output code		Gray, Gray-Excess, Binary, BCD (8421)
		Programmable vial DIP switches
Inputs:		< 2 V: "0", > 11 V: "1", U_{max} = 30 V, I < 6 mA
LATCH		"0" or unswitched: do not save data outputs
		"1": save data outputs
TRISTATE		"0" or unswitched: outputs active
		"1" : high Ohm outputs
		Operating direction can be inverted via jumper
PRESET		"0" or unswitched: inactive
		"1": the output word is set to zero

SLIN Telegram:

Serial interface connections:

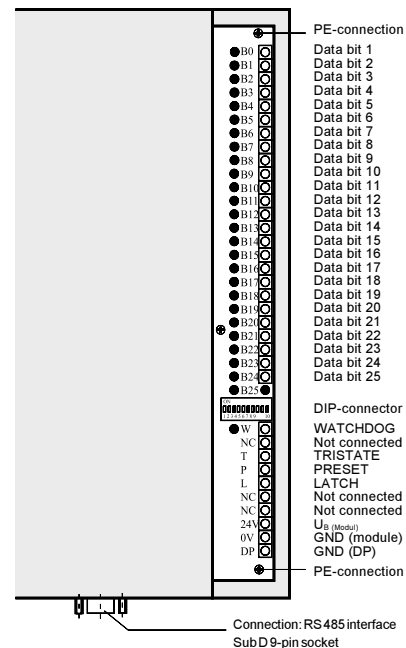| Signal	Sub-D Socket Pin-Nr.	Definition
GND (Encoder)	1	Encoder voltage supply
U_B (Encoder)	2	Encoder voltage supply
RXT-TXT-P	3	Positive serial transmitted/received data
RXT-TXT-N	4	Negative serial transmitted/received data
N.C.	5	Not connected
N.C.	6	Not connected
N.C.	7	Not connected
GND (Iso)	8	Reference potential for + 5 V (Iso) for connection of terminating resistors
+ 5 V (Iso)	9	+ 5 V DC potential free for connection of terminating resistors

Serial interface connections:

Signal	Terminal	Definition
Watchdog	W	Output: Watchdog
N.C.	NC	Not connected
TRISTATE	T	Input: multiplexer operation
PRESET	P	Input: zero setting
LATCH	L	Input: data storage
N.C.	NC	Not connected
N.C.	NC	Not connected
U_B (Module)	24 V	Voltage supply
GND (Module)	0 V	Voltage supply
GND (DP)	DP	Data reference potential for output drivers

Mechanical dimensions:

Top view without cover

Connection design:

Mechanical characteristics:

Housing	Stainless steel
Weight [g]	ca. 600
Connection	self opening terminal connectors (max. wire size 1.5 mm^2)
	9 pin Sub-D socket

Environmental conditions:

Storage temperature	[°C]	-25 ... 85
Operating temperature	[°C]	0 ... 70
Interference output according to		EN 50081-2, 1993
Interference resistance according to		EN 50082-2, 1995
Protection class according to DIN 40050		IP 20
Accessories		Flange adapter for DIN rail

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