

# SZL - NUMERICAL DISPLAY WITH PROFIBUS INTERFACE

## Features

- Maintenance-free LED-display, ready to connect
- One line
- One or two sided
- LED 7-Segment technology
- 4 digit heights
- 4 digit colours
- Up to 22 digits
- Colour adapted plexiglas
- Data transfer up to 12MBit/s
- Power supply 24VDC
- Industrial case design
- Case protection class IP 54
- WIBOND standard polishing



## Advantages

- Good readability, also at greater distances, through light-intensive display modules
- Constant light intensity of the LED's
- Long-life display modules
- Wide reading angle
- Low power input
- All connections accessible from the outside
- Adjustable data transfer rate
- Data width up to 64 Byte
- Fast update time
- Industrial construction
- Modular construction
- Decimal point controllable individually
- Power supply 24VDC with protection against incorrect polarity
- Simple structure of data telegram

## Options

- More sides, more lines
- Individual number of digits
- Digit height bigger than 200 mm
- Adjustable mounting angle
- Case finish in any RAL-colour
- Case design (aluminium, stainless steel or other materials)
- Case protection class IP 65
- Case design for Ex-area
- Individual mounting possibilities
- Individual case printing
- Single bar controlling
- Connection over LWL
- Audible output
- Wide temperature range
- Power supply 230VAC

## Application examples

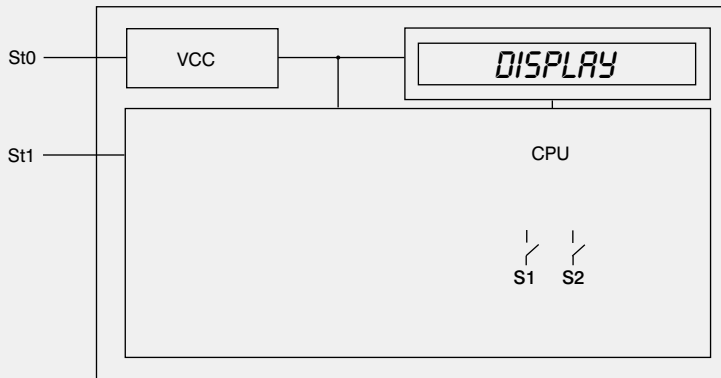
- Production data (motivation of employees e.g. plan-, actual-, trend-representation)
- Controlling and recognition of defects or incidents (e. g. fault message displays, diagnostic system)
- Display of physical sizes (Size, weight, running meters and so on)
- Component information (e.g. part- or production numbers)
- Traffic information (e.g. free parking spaces)
- Clock/date displays
- Sport information (e.g. score display)
- Logistic information (e.g. commissioning display)

## Technical Data

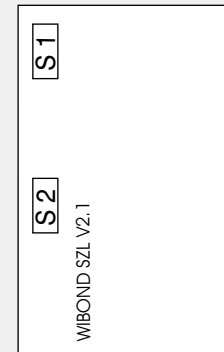
Digit height	38, 60, 100, 200 mm
Reading distance	approx. 12 m with 38 mm digit height
	approx. 25 m with 60 mm digit height
	approx. 40 m with 100 mm digit height
	approx. 70 m with 200 mm digit height
Number of digits	1 to 22
Reading angle	±75°
LED's	high efficiency
Colour	red, green, yellow, blue
Power supply	24VDC ± 20%
IDENT-No.	3104(hex)
Data transfer rate	up to 12 MBit/s
Input data	1-16 byte or 1-16 words
Output data	1-16 byte or 1-16 words
Parametering data	will be delivered as a GSD-file
Case design	one or two sided
Case material	sheet steel
Case mounting	wall mounting or suspended
Case colour	RAL 7015 (slate-gray)
Case protection class IP 54	DIN EN 60529
Electrical safety	DIN EN 60950
Radiated interference	DIN EN 50081
Interference immunity	DIN EN 50082
Plexiglas	anti-reflection coated
Temperature area	0 ... +50 °C
Relative humidity	0 ... 90 % not condensed

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## Block diagram



## Position of switches



## Adjustment

### Profibus station address S1

1	2	3	4	5	6	7	8	Address
(2 <sup>0</sup> )	(2 <sup>1</sup> )	(2 <sup>2</sup> )	(2 <sup>3</sup> )	(2 <sup>4</sup> )	(2 <sup>5</sup> )	(2 <sup>6</sup> )	(2 <sup>7</sup> )	
ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	3*
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	4
ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	5
OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	6
.	.	.	.	.	.	.	.	
OFF	OFF	ON	ON	ON	ON	ON	OFF	124

### S2

1	2	3	4	5	6	7	8
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Do not change!							

## Pin assignment

### Power supply St0

Type of cable:

at 24VDC: Connecting cable (e.g LAPP-cable  
Ölflex CLASSIC 100 3x1,5mm<sup>2</sup>)

at 230VAC: Connecting cable (e.g LAPP-cable  
Ölflex CLASSIC 100 3x1,5mm<sup>2</sup>)

Power supply: 24VDC



Case pins

Power supply: 230VAC (option)



Case pins

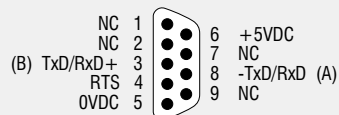
Achtung: Disconnect plug before opening!  
Display may only be opened and connected by  
trained service personnel!

### Profibus interface St1

Type of cable:

Data cable with Cu - screening braid (e.g. LAPP-  
cable UNITRONIC 100YC)

Shield has to be connected to the plug housing!



Case bushing

\*Factory settings (if there is no agreement between customer and WIBOND!)