

# Technical Data Sheet

## Signal Box Type 827S



**TD\_827S**

### General data

#### Basic instrument

<b>Signal box</b>	<b>827S.</b> . . .
<b>Angular range</b>	60° for linear valves (10 - 120 mm) and 90° for part-turn valves
<b>Connections</b>	
Cable gland	1 x M20 x 1,5
Cable terminals	suitable for max. 2,5 mm <sup>2</sup>
<b>Protection class</b>	IP 66
Climate class	ZQF acc. to DIN 40040
<b>Weights</b>	0,8 kg

#### Inductive limit-value transmitter

<b>Execution</b>	<b>827S.</b> <b>E</b> . <b>1</b>
<b>Standard</b>	2-wire system acc. to DIN 19234 (NAMUR), for secondary switch amplifier
Slotted switch initiator	type SC 3,5 N0-BU
Function	NC, normally closed
Ambient temperature	- 25 to + 80°C
Switching difference	≤ 1 %
Control current circuit	see secondary switch amplifier
EMV conformance	EN 60947-5-2 and DIN 19234

<b>Execution</b>	<b>827S.</b> <b>E</b> . <b>2</b>
<b>Safety Function</b>	2-wire system acc. to DIN 19234 (NAMUR) for switch amplifier in safety function
Slotted switch initiator	Type SJ 3,5 SN
Function	NC, normally closed
Ambient temperature	- 40 to + 80°C
Switching difference	≤ 1 %
Control current circuit	see secondary switch amplifier
EMV conformance	EN 60947-5-2 and DIN 19234

<b>Execution</b>	<b>827S.</b> <b>E</b> . <b>3</b>
<b>Direct switching</b>	3-wire system with integrated amplifier for direct switching
Slotted switch initiator	Type SB 3,5 E2
Function	NO, normally open
Ambient temperature	- 25 to + 70°C
Switching difference	≤ 1 %
Operating voltage	10...30 V DC
Max. output current load	100 mA

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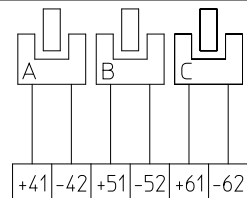
<b>Execution</b>	<b>827S.</b>	<b>X</b>	.	<b>1</b>	
<b>Standard</b>	2-wire system acc. to DIN 19234 (NAMUR), for secondary switch amplifier, intrinsically safe				
Explosion protection	II 1 G Ex ia IIC T6...T1 Ga				
Slotted switch initiator	Type SC 3,5 N0-BU				
Function	NC, normally closed				
Ambient temperature	- 25 bis + 80°C				
Switching difference	≤ 1 %				
Control current circuit	see secondary isolated barrier/switch amplifier				
EMV conformance	EN 60947-5-2 and DIN 19234				

<b>Execution</b>	<b>827S.</b>	<b>X</b>	.	<b>2</b>	
<b>Safety Function</b>	2-wire system acc. to DIN 19234 (NAMUR) for switch amplifier in safety function, intrinsically safe				
Explosion protection	II 1 G Ex ia IIC T6...T1 Ga				
Slotted switch initiator	Type SJ 3,5 SN				
Function	NC, normally closed				
Ambient temperature	- 40 to + 80°C				
Switching difference	≤ 1 %				
Control current circuit	see secondary isolated barrier/switch amplifier				
EMV conformance	EN 60947-5-2 and DIN 19234				

## Description of function

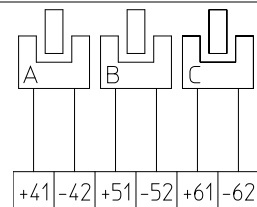
### Standard execution (2-wire, N)

The proximity switches acc. to DIN 19234 or acc. to NAMUR respectively, are simple DC-switches in 2-core execution. The signals of the switches can be transmitted by means of a separate switch amplifier (to be supplied by customer). The values of current and voltage are so low that these proximity switches can be used - in combination with suitable switching amplifiers - in explosion hazardous zones. (protection class „intrinsically safe“). Generally, the switches have opening (NC) function.



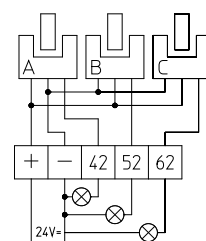
### Safety system (2-wire, SN)

These proximity switches correspond to the standard execution, but with an additional function: In case of a failure report of proximity switch, amplifier, or connecting cable, the output signal goes automatically into the safe „Out“- position (=logical „0“). Generally, the switches have opening (NC) function.



### Direct switching execution (3-wire, E2)

The proximity switches of this type are provided with an integrated amplifier and have separate connections for current supply and load. This type must not be used in explosion hazardous zones. The switches have generally closing (NO), plus-switching (E2) function.

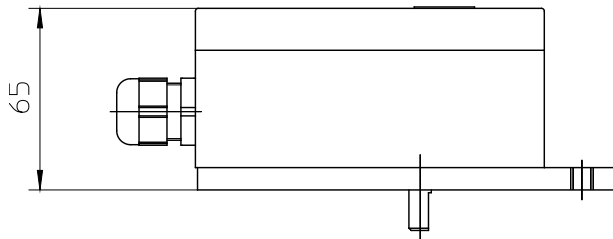
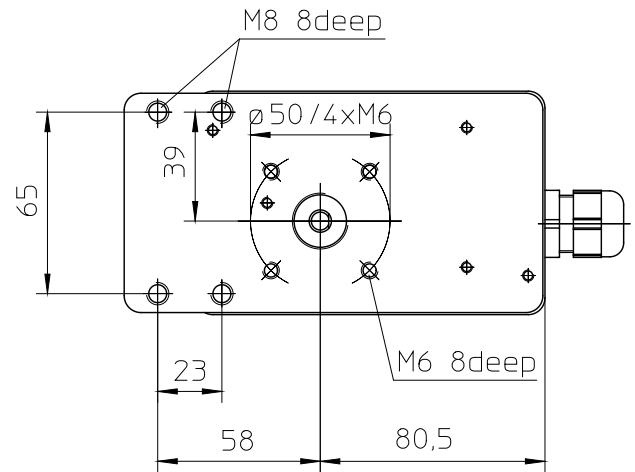
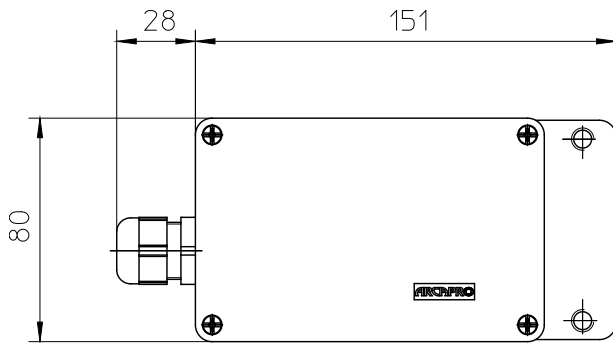


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## Dimensions



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## Signal Box Type 827S



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### Type Code

<b>827S.</b>	<b>X</b>	<b>2</b>	<b>1</b>
[1]	[2]	[3]	[4]

<b>1. Series</b>	
827S	

<b>2. Explosion protection <sup>1)</sup></b>	
E	without
X	explosion proof „ia“ <sup>1)</sup>

<b>3. Quantity of initiators</b>	
1	1 initiator
2	2 initiators
3	3 initiators <sup>2)</sup>

<b>4. Type of initiators</b>	
1	standard type SC 3,5 NO...-BU
2	safety function type SJ 3,5 SN
3	direct switching type SB 3,5 E2 <sup>2)</sup>

<sup>1)</sup> ATEX-certificate, others on request

<sup>2)</sup> only for non-intrinsically safe design „E“

### Example:

827S.X21

Signal box 827S – intrinsically safe design „ia“ – 2 slotted switch initiators – type SC 3,5 NO...-BU