

Safety Position Switch

Series 8070



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- > Enclosures of type of protection "increased safety"
- > Replaceable contact in flameproof enclosure
- > All inserts may be displaced by 4 x 90°
- > Category 2 safety position switch by means of separate actuator
- > Possible as version with unconnected cable end



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Position switches are used to monitor the position of moving parts of machines and systems. They can be used in safety circuits as the device satisfies the standard EN 60947-5-1 / DIN VDE 0660 Part 200 and the normally closed contacts are positive opening contacts. The switching element and the actuating element of category 2 safety switches do not form a constructional unit but are functionally combined or separated. As a result of the galvanic isolation of the moving contacts, the position switch is suitable for switching various potentials.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

WebCode 8070B

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Selection Table

Version	Actuator	Order number	Weight kg
Safety switch with separate actuator	1 NC + 1 NO Slow-action contact	8070/1-1-ZB	0.208
	2 NC Slow-action contact	8070/1-3-ZB	0.208

Explosion Protection

Marking

IECEX

Gas explosion protection	Ex de IIC T6
Dust explosion protection	Ex tD A21 IP65 T80°C

Europe (ATEX)

Gas explosion protection	⊕ II 2 G Ex de IIC T6
Dust explosion protection	⊕ II 2 D Ex tD A21 IP65 T80°C

Certificates

IECEX

Gas explosion protection	IECEX PTB 06.0092
Dust explosion protection	IECEX PTB 06.0092

Europe (ATEX)

Gas explosion protection	PTB 01 ATEX 1053
Dust explosion protection	PTB 01 ATEX 1053

Further certificates

China (CQST Ex), India (PESO), Canada (CSA), Kazakhstan (JSC), Korea (KGS), Russia (CTB), Ukraine (IECVE), Belarus (Gospromnadzor)

Technical Data

Electrical Data

Rated operational voltage U_e	8070/1-1	8070/1-3
Alternating current for equal potential: Alternating current for unequal potential: Direct current:	max. 500 V	max. 400 V
	max. 250 V	max. 250 V
	250 V	250 V
Rated operational current I_e	max. 10 A	
Short circuit protection	10 A gG	

Ambient Conditions

Operating temperature range	- 20 ... + 70 °C
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Mechanical Data

Degree of protection	IP65
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For dimensions and other technical data see position switch 8070

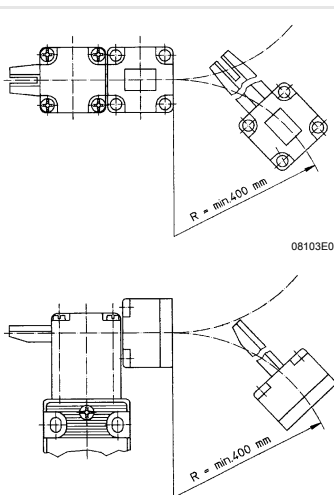
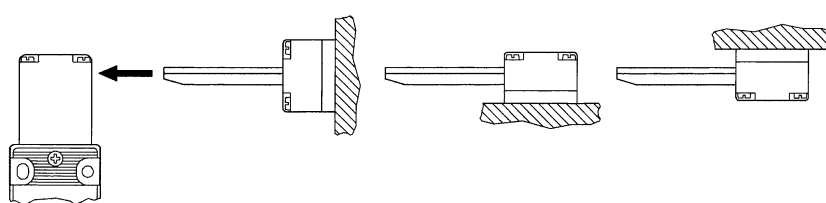
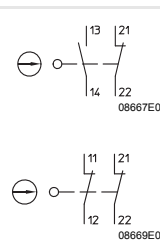
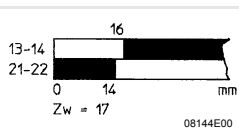
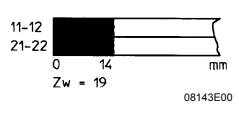
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Technical Data

Operation, operating speed, contact travel or angle

Actuator	Operation	Diagram	Nominal contact travels or angles	Minimum force
Type 8070/1	V = Max. operating speed → = Direction of operation	⊕ = Positive opening	■ = Contact closed □ = Contact open Zw = Travel for positive opening	
Safety switch with separate actuator 8070/1- . -ZB	 <p>Do not use the switch as a mechanical stop.</p>  <p>The actuators can be mounted in several ways, this substantially increases the range of application of the switches.</p>		<p>8070/1-1: </p> <p>8070/1-3: </p>	--

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We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.