

01798E00

## Safety Position Switch Series 8070

- Explosion protection to
  - CENELEC
  - IEC
- For use in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- Enclosures have protection class "increased safety"
- Replaceable contact elements in flameproof enclosure
- Attachment can be displaced through 4 x 90°
- Category 2 safety position switch by means of separate actuators
- Design also possible with cable already attached

Position switches are used to monitor the position of moving parts of machines and plant.

Can be used in safety circuits, as the device satisfies EN 60 947-5-1/DIN VDE 0660 part 200, and the opening contacts are positive opening. The position switch with positive opening contacts has been tested to professional association test standard GS-ET 15 of the German Employer Liability Insurance Association, and is thus licensed for personnel protection functions.

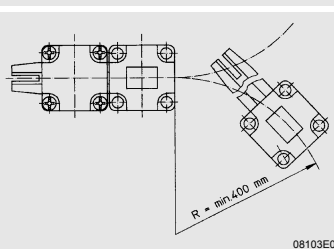
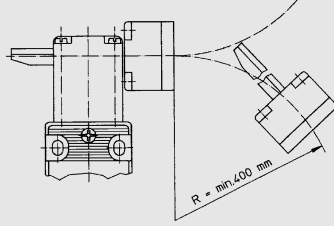
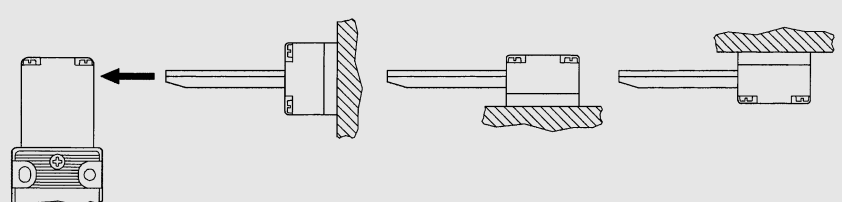
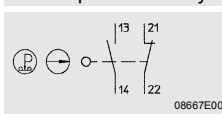
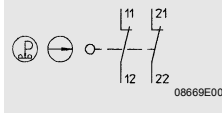
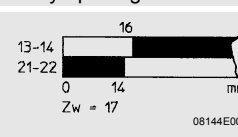
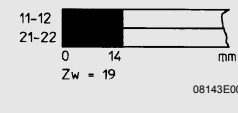
Category 2 safety position switches do not have contact and actuating element in one unit but can be connected or separated functionally.

As a result of the galvanic isolation of the moving contacts, the position switch is suitable for switching various potentials.

# Zones 1 & 2, 21 & 22

Selection table				
Version	Actuator		Ordering code	Weight kg
Safety switch with separate actuator	1 NC + 1 NO	Slow-action contact	<b>8070/1-1-ZB</b>	0,208
	2 NC	Slow-action contact	<b>8070/1-3-ZB</b>	0,208

Technical Data			
Explosion protection			
Gas explosion protection	⊕ II 2 G EEx ed IIC T6		
Dust explosion protection	⊕ II 2 D IP65 T80 °C		
Certificates			
Gas explosion protection	PTB 01 ATEX 1053		
Dust explosion protection	LCIE 03 ATEX 6308		
Rated operational voltage $U_e$	8070/1-1	8070/1-3	
	Alternating current for equal potential:	max. 500 V	max. 400 V
	Alternating current for unequal potential:	max. 250 V	max. 250 V
	Direct current:	250 V	250 V
Rated working current $I_e$	max. 10 A		
Back-up fuse	10 A gL / gG		
Ambient temperature	- 20 °C ... + 70 °C		
Degree of protection	IP 65		
For dimensions and further technical data see position switch 8070			

Technical Data				
Operation, operating speeds, movements/angles of deflection				
Drive	Operation	Schematic	Movements/angles of deflection	Minimum force
Type 8070/1	V = max. operating speed → = direction of operation	⊖ = Positively opening contacts ⊕ = Operator safety	■ = Contact closed □ = Contact open Zw = Positively opening clearance	
Safety switch with separate actuator 8070/1-1-ZB	 <p>08103E00</p>  <p>08104E00</p> <p>Switch must not be used as mechanical stop.</p>  <p>08727E00</p> <p>The actuators can be fitted in several ways, this substantially increases the range of application of the switches.</p>	 <p>08667E00</p>  <p>08669E00</p>	<p>8070/1-1:</p>  <p>08144E00</p> <p>8070/1-3:</p>  <p>08143E00</p>	--

