

## Position Switch in Metal Series 8074 to EN 50041

- Explosion protection to
  - CENELEC
  - IEC
- For use in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- Dimensions and functional measurements to EN 50041
- Replaceable contact elements in flameproof enclosure
- Positive opening contacts
- Wide range of actuators
- All attachments can be displaced through 4 x 90°
- Contact elements with slow-action contact or overlapping slow-action contact
- Extensively oil- and petrolresistant

STAHL

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

The robust zinc pressure diecasting enclosure resists mechanical load and is e.g. suitable for security tasks in elevator construction, in conveyor technology as well as in machine and plant construction.





Series 8074 may be used in safety circuits as the device fulfills EN 60947-5-1.

For this series there is also a belt-alignment position switch available. Here the position switch monitors the conveyor belt.


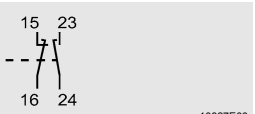
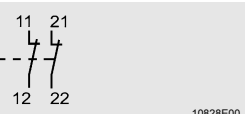
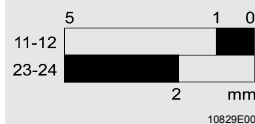
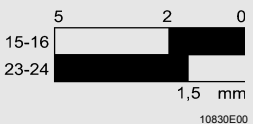
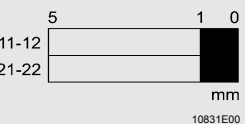
# Zones 1 & 2, 21 & 22

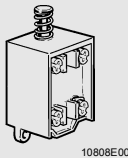
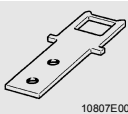

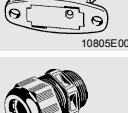
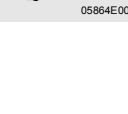


Selection table					
Version	Actuator		Switching function	Ordering code	Weight kg
 10787E00	Extended plunger	Plunger of stainless steel	1 NC + 1 NO Slow-action contact	<b>8074/1-1-S</b>	0,340
			2 NC Slow-action contact	<b>8074/1-3-S</b>	0,340
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-S</b>	0,340
 10786E00	Roller plunger	Roller of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-RS</b>	0,342
			2 NC Slow-action contact	<b>8074/1-3-RS</b>	0,342
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-RS</b>	0,342
 10784E00	Roller lever plunger	Roller of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-AR</b>	0,340
			2 NC Slow-action contact	<b>8074/1-3-AR</b>	0,340
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-AR</b>	0,340
 10790E00	Swivelling lever	Roller of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-HR311</b>	0,425
			2 NC Slow-action contact	<b>8074/1-3-HR311</b>	0,425
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-HR311</b>	0,425
 10785E00	Adjustable roller lever	Roller of moulded plastic; rod of stainless steel	1 NC + 1 NO Slow-action contact	<b>8074/1-1-HV</b>	0,430
			2 NC Slow-action contact	<b>8074/1-3-HV</b>	0,430
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-HV</b>	0,430
 10779E00	Actuating rod	Rod of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-HH-K</b>	0,400
			2 NC Slow-action contact	<b>8074/1-3-HH-K</b>	0,400
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-HH-K</b>	0,400
 10778E00	Spring-rod actuator	Spring of stainless steel	1 NC + 1 NO Slow-action contact	<b>8074/1-1-F2</b>	0,360
			2 NC Slow-action contact	<b>8074/1-3-F2</b>	0,360
 10781E00	Forked roller lever	Roller of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-GR</b>	0,465
			2 NC Slow-action contact	<b>8074/1-3-GR</b>	0,465

Selection table						
Version	Actuator		Switching function	Ordering code	Weight kg	
 10782E00	Big swivelling lever	Roller of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-HR312</b>	0,445	
			2 NC Slow-action contact	<b>8074/1-3-HR312</b>	0,445	
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-HR312</b>	0,445	
 10780E00	Belt-alignment switch	Roller of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-BSS</b>	0,460	
 10783E00	Angled roller lever	Roller of moulded plastic	1 NC + 1 NO Slow-action contact	<b>8074/1-1-WR</b>	0,340	
			2 NC Slow-action contact	<b>8074/1-3-WR</b>	0,340	
			1 NC + 1 NO Slow-action contact, overlapping	<b>8074/1-5-WR</b>	0,340	
 10788E00	Safety switch	Separate actuator	1 NC + 1 NO Slow-action contact	<b>8074/1-1-ZB</b>	0,386	
			2 NC Slow-action contact	<b>8074/1-3-ZB</b>	0,386	
		<b>Note: Actuators for the safety switch have to be ordered separately.</b>				
		Straight actuator			<b>807400170210</b>	0,027
		Angled actuator			<b>807400170220</b>	0,037
Adjustable actuator			<b>807400170230</b>	0,038		

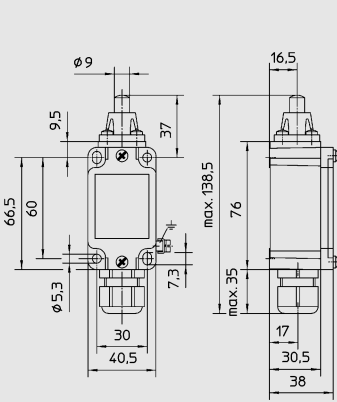
Technical Data	
Explosion protection	
Gas explosion protection	⊕ II 2 G EEx de IIC T6
Dust explosion protection	⊕ II 2D IP 65 T80 °C
Certificates	
Gas explosion protection	BVS 05 ATEX E 007
Dust explosion protection	BVS 05 ATEX E 007
Material	
Housing	Zinc diecasting, coated
Contacts	Silver
Degree of protection	IP 65
Ambient temperature	- 20 °C ... + 60 °C
Connection	4 screw terminals M3
Flexible lead	Sheathed cable max. 5 x 1,5 mm <sup>2</sup> , cables according to DIN VDE 0165
Cable glands	With cable entry 8161, M 20 x 1,5

Technical Data			
Contact block			
Version	8074/1-1-..	8074/1-5-..	8074/1-3-..
Schematic			
Movements of deflection			
Switching function	Slow-action contact 1 NC + 1 NO Slow-action contact 1 NC + 1 NO, overlapping Slow-action contact 2 NC  Positive opening contacts according to EN 60 947-5-1		
Electrical load	Min. electrical load 24 V AC/DC / 10 mA Max. electrical load 250 V AC / 6 A (AC - 15) 230 V DC / 0,25 A (DC - 13)		
Back-up fuse	6 A (time-lag)		
Life	max. 10 <sup>6</sup> operations *) max. 1800 operations/h *) Replace contact element after max. 10 <sup>6</sup> operations		

Accessories and spare parts					
Designation	Illustration		Ordering code	Weight kg	
Contact block		1 NC + 1 NO Slow-action contact	8084/1-1 S/Ö	<b>808400600010</b>	0,030
		2 NC Slow-action contact	8084/1-3 2Ö	<b>808400600020</b>	0,030
		1 NC + 1 NO Slow-action contact, overlapping	8084/1-5 S/Ö UE	<b>808400600030</b>	0,030
Actuator		Straight actuator	8074/1-.-ZB	<b>807400170210</b>	0,027
		Angled actuator	8074/1-.-ZB	<b>807400170220</b>	0,037
		Adjustable actuator	8074/1-.-ZB	<b>807400170230</b>	0,038
Cable gland		M20 x 1,5	8161/5-M20-13	<b>8161077010</b>	0,011

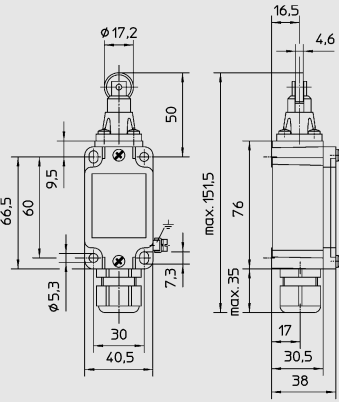


Dimension drawings (all dimensions in mm) - subject to alterations



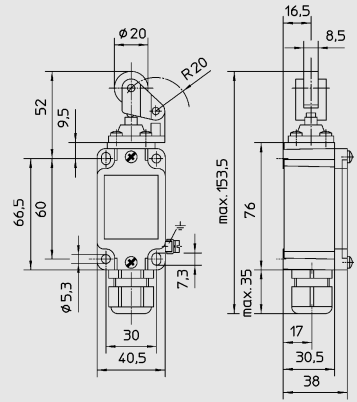
**8074/1--S**  
Extended plunger

10752E00



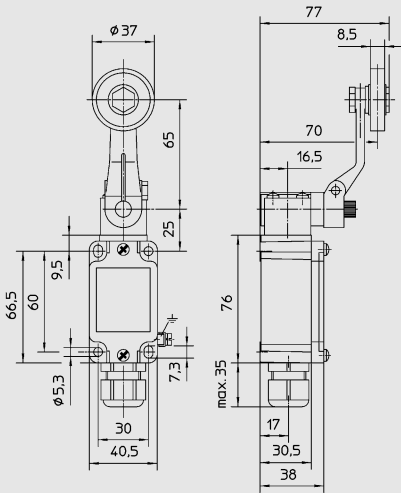
**8074/1--RS**  
Roller Plunger

10753E00



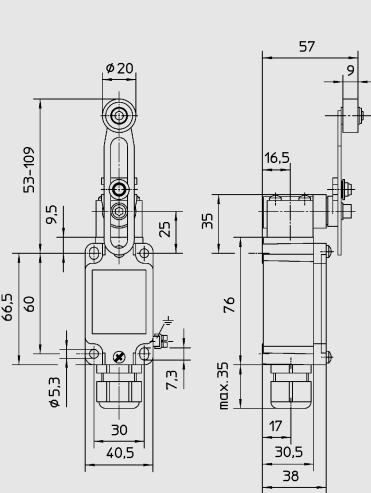
**8074/1--AR**  
Roller lever plunger

10754E00



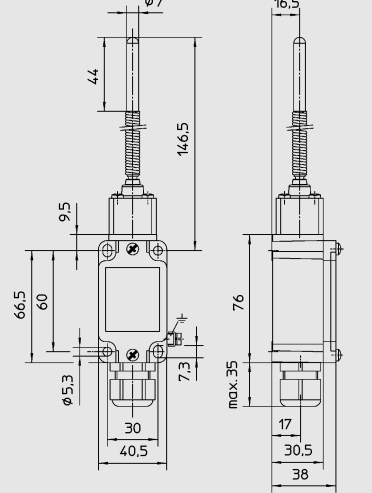
**8074/1--HR312**  
Big swivelling lever

10759E00



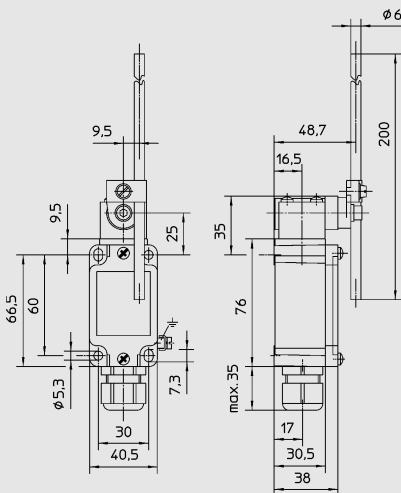
**8074/1--HV**  
Adjustable roller lever

10756E00



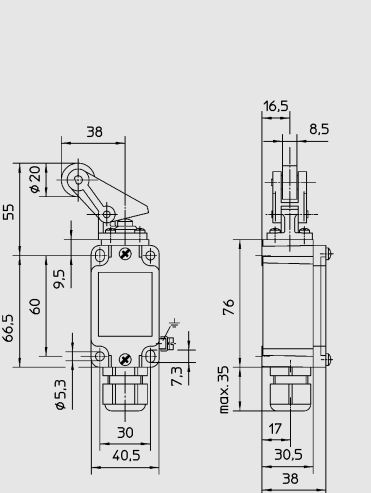
**8074/1--F2**  
Spring-rod actuator

10758E00



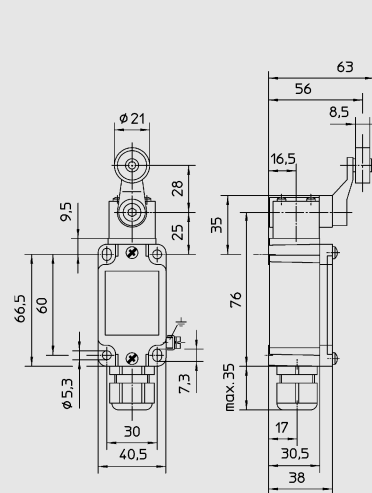
**8074/1--HH-K**  
Actuating rod

10757E00



**8074/1--WR**  
Angled roller lever

10762E00

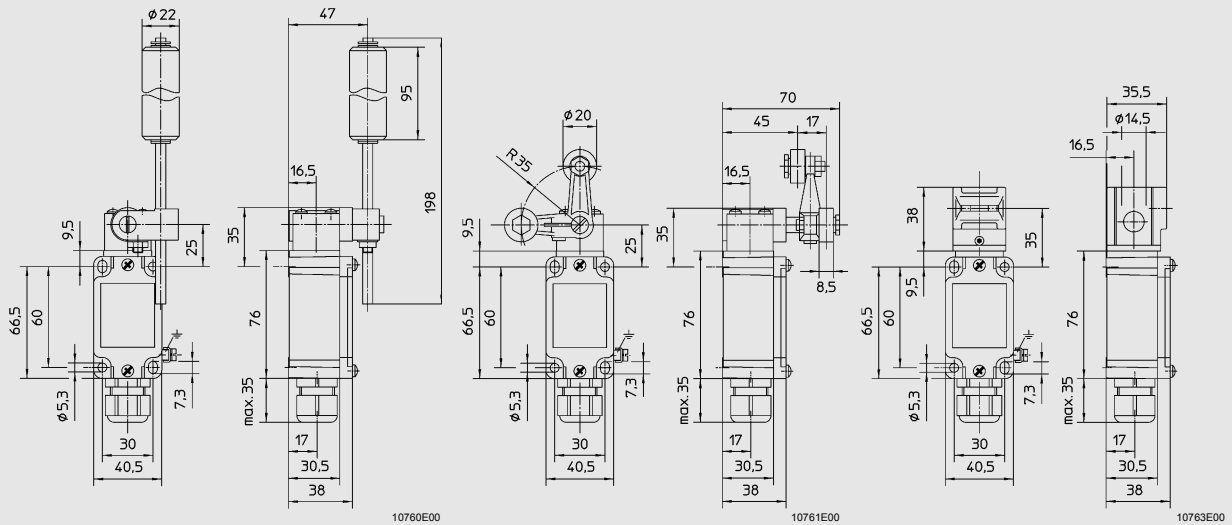


**8074/1--HR311**  
Swivelling lever

10755E00



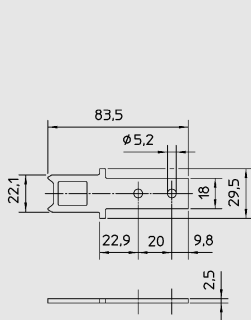
Dimension drawings (all dimensions in mm) - subject to alterations



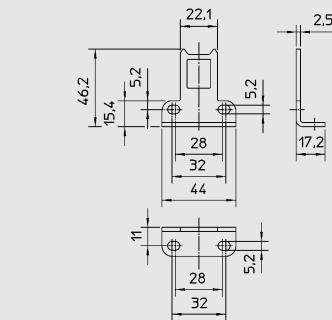
**8074/1--BSS**  
Belt-alignment switch

**8074/1--GR**  
Forked roller lever

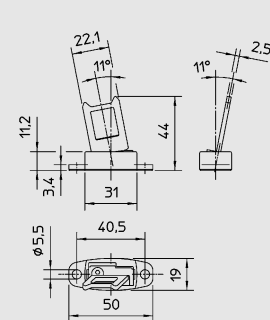
**8074/1--ZB**  
Safety switch



Straight actuator;  
for safety switch 8074/1--ZB



Angled actuator;  
for safety switch 8074/1--ZB



Adjustable actuator;  
for safety switch 8074/1--ZB

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

