



- Operating temperature range: -40 °C to +70 °C
- Large inner connection chamber
- High-quality metal Ex e enclosure with outer PE connection
- Degree of protection IP66/67
- Five different contact versions
- Ten different actuator versions

E4

WebCode 8074D

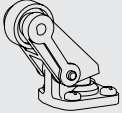

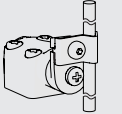
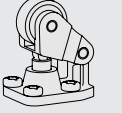
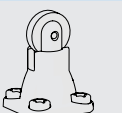

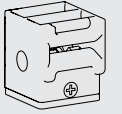


Metal position switch; switch dimensions meet the requirements of DIN EN 50041. It is designed to detect the position of moving components. Certified versions fulfil the requirements for safety switches as set out in EN 13849-1 and have positive-opening contacts in accordance with EN 60947-5-1.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Actuator		Adjustable rotary lever				
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8074/2-1-DS-40	257189 ▲	0.386
		Slow-action contact, Overlapping	No	8074/2-5-DS-40	257218	0.386
	2 NC	Slow-action contact	No	8074/2-3-DS-40	257209	0.386
Actuator		Long rotary lever				
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-DL-40	257188 ■	0.422
		Slow-action contact, Overlapping	Yes	8074/2-5-DL-40	257217	0.422
	2 NC	Slow-action contact	Yes	8074/2-3-DL-40	257208	0.422
Actuator		Misalignment switch				
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8074/2-1-SR-40	257201 ■	0.486

Selection Table

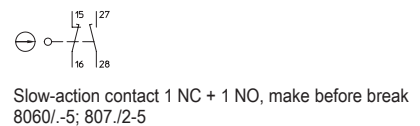
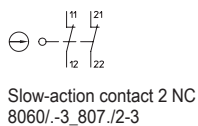
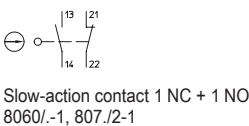
Actuator						
Parallel roller lever						
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-WPH-40	278572	–
		Slow-action contact	Yes	8074/2-2-WPH-40	278575	–
	2 NC	Slow-action contact	Yes	8074/2-3-WPH-40	278573	–
Actuator						
Plunger						
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-W-40	257197 ■	0.298
		Slow-action contact, Overlapping	Yes	8074/2-5-W-40	257212	0.298
	2 NC	Slow-action contact	Yes	8074/2-3-W-40	257203	0.298
Actuator						
Rod lever						
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	No	8074/2-1-DD-40	257190 ■	0.340
		Slow-action contact, Overlapping	No	8074/2-5-DD-40	257219	0.340
	2 NC	Slow-action contact	No	8074/2-3-DD-40	257210	0.340
Actuator						
Roller lever						
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-WH-40	278457	–
		Slow-action contact	Yes	8074/2-2-WH-40	278571	–
		Slow-action contact	Yes	8074/2-5-WH-40	278459	–
	2 NC	Slow-action contact	Yes	8074/2-3-WH-40	278458	–
Actuator						
Roller plunger						
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-R-40	257184 ■	0.299
		Slow-action contact, Overlapping	Yes	8074/2-5-R-40	257213	0.299
	2 NC	Slow-action contact	Yes	8074/2-3-R-40	257204	0.299
Actuator						
Rotary lever						
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-D-40	257187 ■	0.360
		Slow-action contact, Overlapping	Yes	8074/2-5-D-40	257216	0.360
	2 NC	Slow-action contact	Yes	8074/2-3-D-40	257207	0.360
Actuator						
Safety switch						
Figure	Contacts	Switching function	Positive opening operation	Product Type	Art. No.	Weight kg
	1 NC + 1 NO	Slow-action contact	Yes	8074/2-1-AZ-20	257202 ■	0.340
	2 NC	Slow-action contact	No	8074/2-3-AZ-20	257211	0.340

The actuators enclosed are not mounted.
Actuators without positive opening are not suitable for safety circuits!

Safety switch, separate actuator made of metal (please order separately; see spare parts and accessories)

Technical Data		
Variant	8074/2-1-...	8074/2-1-AZ-20
Explosion Protection		
IECEX gas explosion protection	Ex de IIC T6 ... T5 Gb	Ex de IIC T6 ... T5 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C / T95 °C Db	Ex tb IIIC T80 °C / T95 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex de IIC T6 ... T5 Gb	⊕ II 2 G Ex de IIC T6 ... T5 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C / T95 °C Db	⊕ II 2 D Ex tb IIIC T80 °C / T95 °C Db
EAC gas explosion protection	⊕ 1 Ex db e IIC T6 Gb	⊕ 1 Ex db e IIC T6 Gb
EAC dust explosion protection	⊕ Ex tb IIIC T80 °C Db	⊕ Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), China (CQST), EAC (CCVE), IECEX (BVS)	ATEX (BVS), China (CQST), EAC (CCVE), IECEX (BVS)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.	
Electrical Data		
DC rated operational voltage	125 V	230 V
AC operating voltage (equal potential)	500 V	250 V
AC operating voltage (unequal potential)	250 V	250 V
Rated operational current	4.4 A 6.6 A	0.25 A 6 A
Rated operational current note	4.4 A at T6 6.6 A at T5	0.25 A at 230 V DC 6 A at 250 V AC
Electrical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles	Max. 10 ⁶ operating cycles
Rated surge voltage	4 kV	4 kV
Short-circuit protection, max.	10 A	10 A
Maximum operating frequency	1800 operating cycles/h	1800 operating cycles/h
Ambient Conditions		
Ambient temperature	-40 °C ... +70 °C (T6) -40 °C ... +70 °C (T5)	-20 °C ... +40 °C (T6) -20 °C ... +60 °C (T5)
Mechanical Data		
IP degree of protection (IEC 60529)	IP66	IP66
Degree of protection (IEC 60529) note	-40 °C	-20 °C
Cover material	1.4401 blasted stainless steel	1.4401 blasted stainless steel
Enclosure material	Corrosion-resistant aluminium, powder-coated	Corrosion-resistant aluminium, powder-coated
Max. earth connection	4 mm ²	4 mm ²
Contact material	Silver-nickel	Silver-nickel
Finely stranded connection cross section	0.75 – 2.5 mm ²	0.75 – 1.5 mm ²
Solid connection cross section	0.75 – 2.5 mm ²	0.75 – 1.5 mm ²
Contact system	2-pole, galvanically separated with double break	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)	≥ 1.5 mm (isolating distance ≥ 3 mm)
Components		
Cable glands and entries	1 x M20 Ø 4 ... 13 mm	1 x M20 Ø 4 ... 13 mm
Cable entry material	Polyamide	Polyamide
Material cable gland	Polyamide, Glass fibre reinforced	Polyamide, Glass fibre reinforced



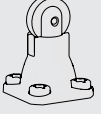
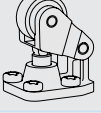
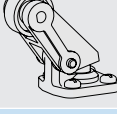
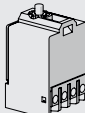
Technical Drawings – Subject to Alterations



Accessories

Figure	Description	Art. No.	Weight kg
Actuator			
	Straight, for 8074/1--ZB	132311	0.028
	Angled, for 8074/1--ZB	132312 ■	0.037
	Adjustable, for 8074/1--ZB	132313 ■	0.035
Cable gland made of plastic			
	8161/7-M20-1307, Ex e Plastic, M20 x 1.5, cable outer diameter 7 to 13 mm Lot size 50 pieces	239172 ▲	0.013

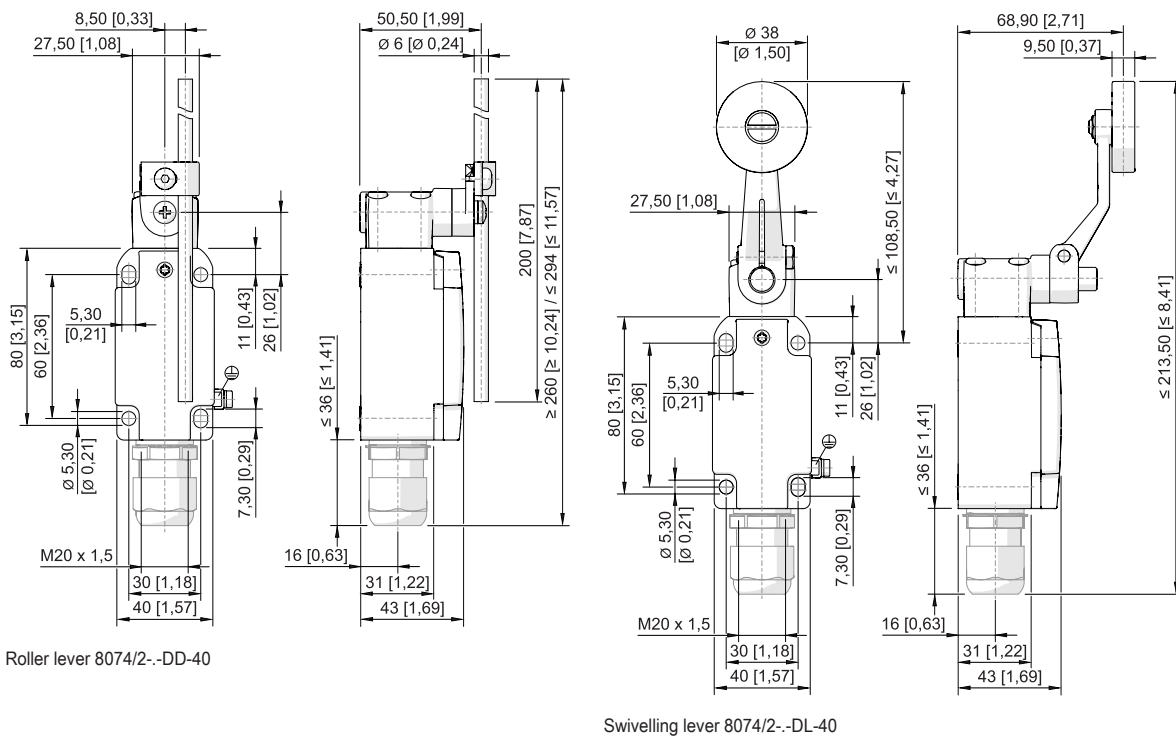
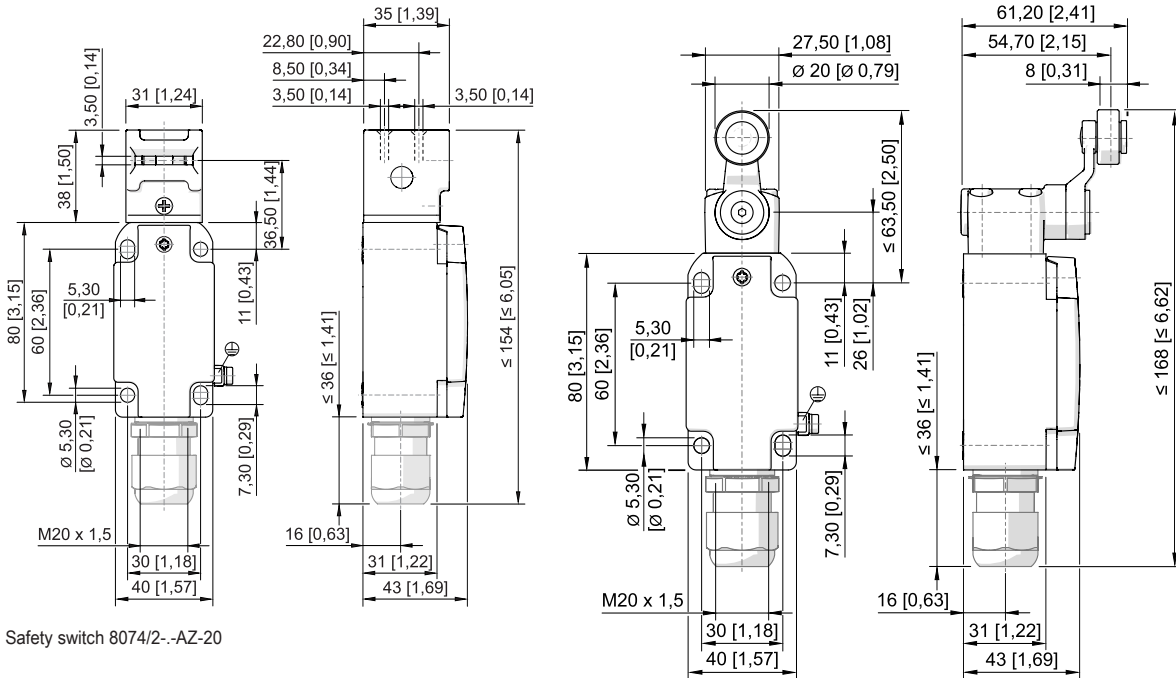
Spare Parts

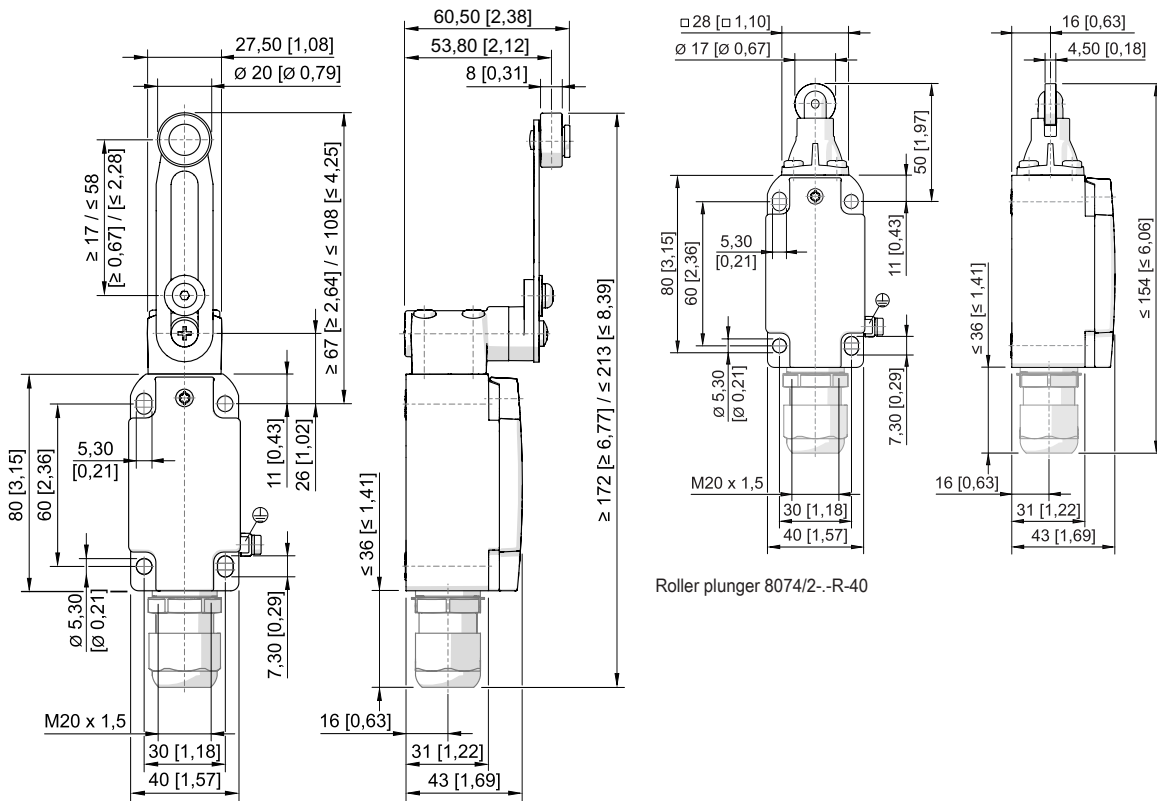
Figure	Description	Art. No.	Weight kg
Actuator			
	Rotary lever actuator	257533 ■	0.102
	Long rotary lever actuator	257534 ■	0.102
	Roller plunger actuator	257520 ■	0.102
	Roller lever actuator	278460	-
	Parallel roller lever actuator	278574	-
Contact element			
	1 NC + 1 NO slow-action contact 8080/1-1	132529 ■	0.025
	1 NC + 1 NO slow-action contact 8080/1-2	279482 ■	0.025
	2 NC slow-action contact 8080/1-3	132532 ■	0.025

Lot size: Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the lot size.

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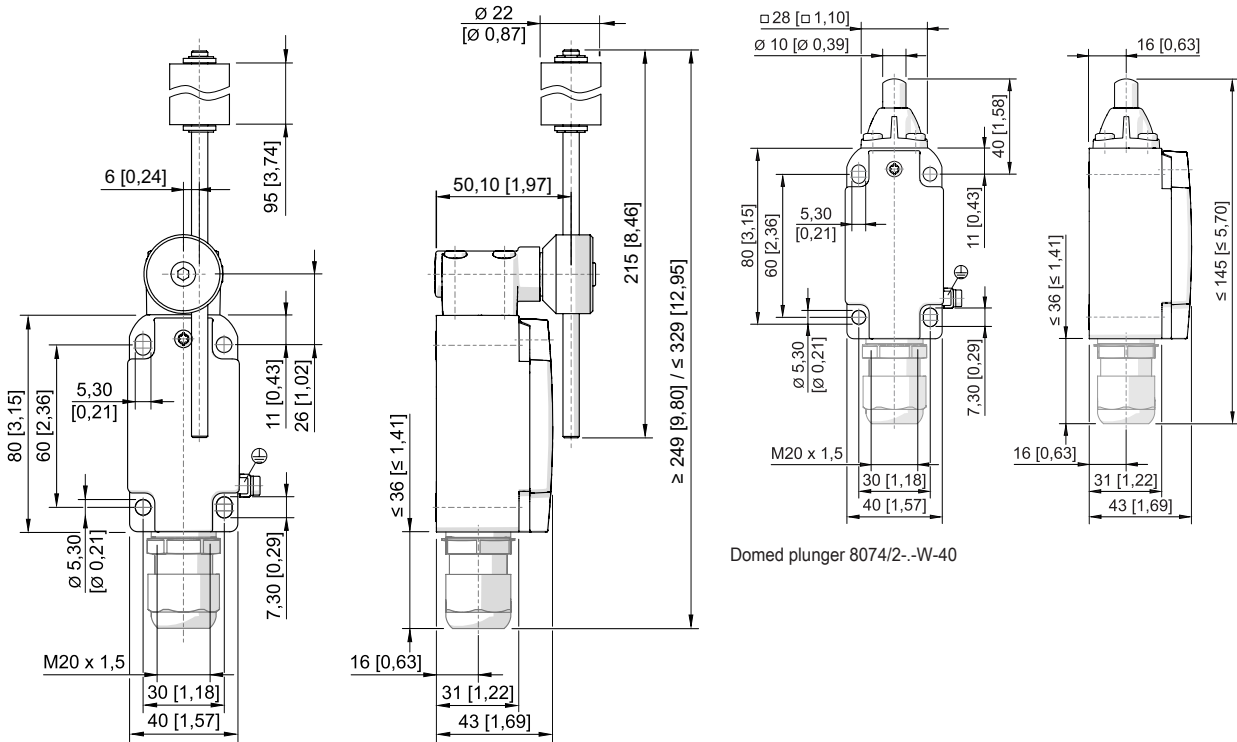
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





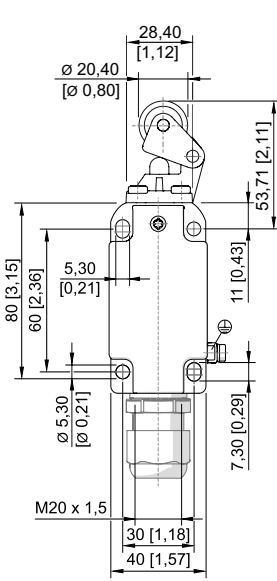
Roller plunger 8074/2--R-40

Swivelling lever 8074/2--DS-40

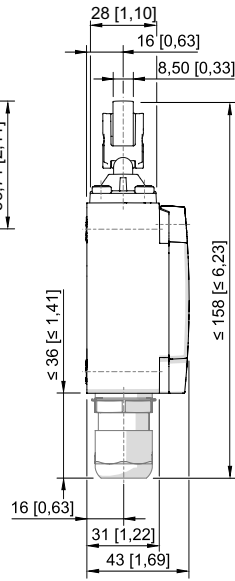


Domed plunger 8074/2--W-40

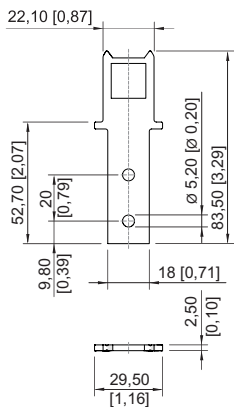
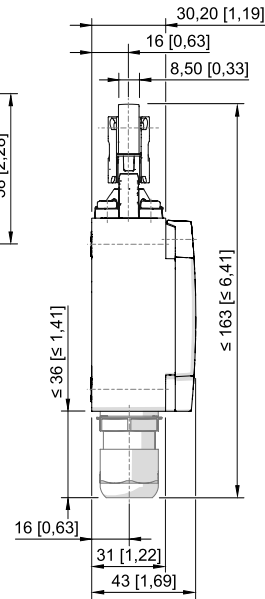
Belt-alignment switch 8074/2--SR-40



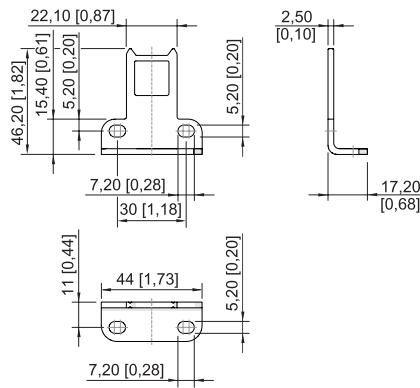
Roller lever 8074/2--WH-40



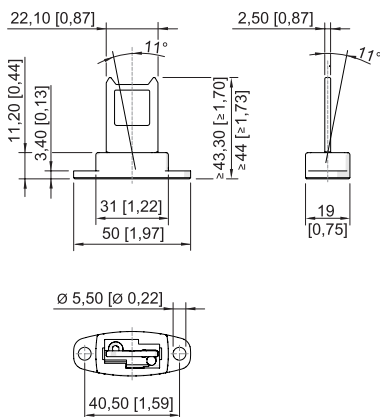
Roller lever 8074/2--WPH-40



Straight actuator for safety switch



Angled actuator for safety switch



Adjustable actuator for safety switch