PUSHBUTTONS AND TOGGLES - MINIATURE

8350 / 8351 / 8352 / 8353

- > Double-break flexible leaf snap-action mechanism
- > Momentary or maintained action
- > Changeover-SPDT microswitch as standard
- > One, two and three-pole configurations
- Long life
- > Ratings from 10 mA 4 V— to 10 A 250 V \sim
- > Operating temperature -40 °C up to +125 °C
- > Choice of connections



Main specifications

			Pushbuttons					
		Action	Momentary	Momentary + Maintained*	Momentary	Momentary	Momentary	
		Features	Standard	Long travel	Long travel	Long travel Metal plunger	Recessed button	
			83507	83553 ***	83513	83522	83535	
Function Connections								
1	I (changeover)	W1 (screw)	83507004	•	83513003	83522011	83535012	
1-pole (8350)	I (changeover)	W2 (solder)	83507009	83553003	83513005	83522005	83535007	
(0350)	I (changeover)	W3 (QC 6.3x0.8)	83507011	•	83513010	83522016	83535021	
2-pole (8353)	I (changeover)	W1 (screw)	83507310	•	83513309	۲	۲	
	I (changeover)	W2 (solder)	83507304	•	83513301	83522302	83535306	
	I (changeover)	W3 (QC 6.3x0.8)	•	•	•	•	•	
Electrical characteristics								
Rating nominal / 250 V AC (A)		10	10	10	10	10		
Rating thermal / 250 V AC (A)		17.5	17.5	17.5	17.5	17.5		
Mechanical characteristics								
Maximum operating force, 1-pole (N)		4	4/25	4	4	4		
Maximum operating force, 2-pole (N)		8	8/25	8	8	8		
Maximum total travel force, 1-pole (N)		-	-	35	15	-		
Maximum total travel force, 2-pole (N)			-	-	35	15	-	
Pretravel (mm)		1.1	1.1	1.1	1.1	1.1		
Total travel (mm)			2.2	6	6	6	2.2	
Ambient operating temperature (°C)			-40 → +85	-40 → +85	-40 → +85	-40 → +85	-40 → +85	
Mechanical life (operations)			106	5 x 10⁵	106	106	106	
Weight, 1-pole (g)			26	24	30	40	29	
Weight, 2-pole (g)			39	34	43	53	42	

* Push slightly for momentary action. Fully push for maintained action, to latch, then to unlatch

** One side momentary, the other side maintained

*** Please consult us

Additional specifications

- Buttons, toggles: POM, PA66 (83502, 83507), nickel-plated brass (83522)
- Mounting brackets: zinc-plated steel
- Barrels, knurled bezels, nuts: nickel-plated brass
- Button collars: chrome-plated ABS (83533, 83535)
- Contacts: silver alloy (gold-plated silver alloy: on request)
- Terminals: brass, copper nickel (W2)
- Sealing cap (accessory): silicone rubber

Product adaptations

- Degree of protection: IP40 (button side), IP50 with cap (accessory)
- Protection against electric shock: Class I (see also "installation recommendations")
- Rated insulation voltage Ui: 250 V (for Ui 400 V, please consult us)
- Impulse withstand voltage Uimp: 2.5 kV
 Pollution degree: 3
- Certification marks: 🕬 us on request / 🗰

- > Functions on request: normally closed (R) or normally open (C) SPST microswitches
- > 3-pole configurations: 835--6 (except for 83515, 83516, 83517)
 - > High DC switching capacity: 5 A 250 V- (with 83154 microswitches)
- > Dual-current variants with gold-plated contacts for use from 10mA to 5A
- > Built-in screw connections (with 83112 microswitches)
- > Solder connections on front face (with 83109 microswitches)
- > Sealing cap accessory for IP50 protection on button side (for 83502, 83507, 83513, 83553)
- > Red button on 83507 and 83535 models
- > High operating temperature: +125 °C (on 83507, 83513, 83522)
- > cURus approved models

Standard product

Product made to order

Contact us







Main specifica	tions (continued)					
Tandem buttons		Toggles				
Maintained		Momentary Maintained		Momentary + Maintained **	Action	
Standard	Recessed buttons	3 positions Auto-return to center	3 positions	3 positions Auto-return to center on momentary side	Features	
83502	83533	83515	83516	83517		
					Func. Conn.	
83502005	83533002	83515006	83516002	•	1 molo I W1	
83502002	83533003	83515010	•	•	1-pole <u>I</u> <u>W2</u> (8350) <u>I</u> <u>W2</u>	
83502008	83533005	٠	•	•	(8350) I W3	
83502306	•	83515302	83516303	٠	2 male W1	
83502302	•	83515301	83516301	•	2-pole <u>I</u> <u>W2</u> (8353) <u>I</u> <u>W2</u>	
•	•	•	•	•	1 1 1 1 1 1	
					Electrical	
10	10	10	10	10	Nom rating (A)	
17.5	17.5	17.5	17.5	17.5	Therm rating (A)	
					Mechanical	
20	20	8	8	8	OF max, 1p (N)	
20	20	10	10	10	OF max, 2p (N)	
-	-	-	-	-	TTF max, 1p (N)	
-			-		TTF max, 2p (N)	
-		<u>± 16°</u>	-	± 16°	PT (mm)	
4	4	±24°	± 24°	± 24°	TT (mm)	
-40 → +85	-40 → +85	-40 → +85	-40 → +85	-40 → +85	Temp (°C)	
5 x 10⁵	5 x 10⁵	105	10 ⁵	105	Mech. life (op)	
53	54	50	50	50	Weight, 1p (g)	
64	70	71	71	71	Weight, 2p (g)	

Normally closed - SPST-NC (form Y)

1 _____ 2

Principles (per pole)

Double break snap-action switch Changeover - SPDT (form Za):



Both circuits must be used at same polarity

Changeover - 2 x SPDT (2 x form Za): for 83515/83516/83517

As standard: each SPDT microswitch is operated by one lever maximum position

As adaptation: both SPDT microswitches can be simultaneously operated by one lever maximum position ; the other maximum position being locked. (SP3218)

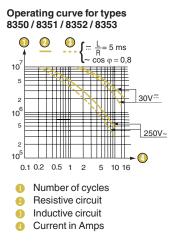
Product made to order



Normally open - SPST-NO (form X)



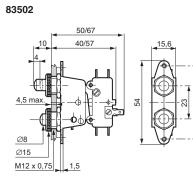
Curves



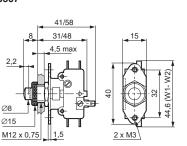
The operating curve relates to contact life, but switch durability is also limited by mechanical life of operating device: see "Mechanical life"

Dimension

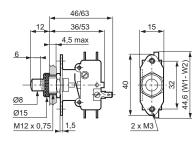
Products



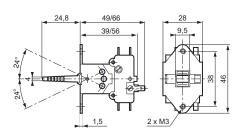
83507



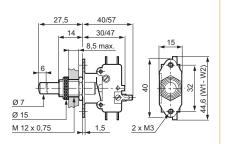
83513



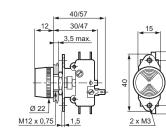
83515 - 83516 - 83517



83522

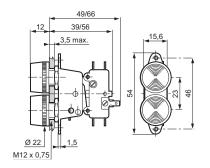


83535



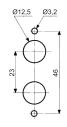
44,6 (W1- W2)

83533



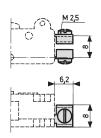
Panel cutouts

83502 - 83533



Connections

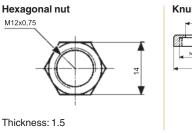
W1 screw with clamp

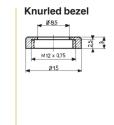


Mounting accessories



M12 × 0.75 Ø15





[]]]]*0* 1,6



Ø 3,2

8,2

5,25

[]]]

Mounting accessories

Part numbers for accessories	70162306	70602118	70602117	70135750 7	0135751
	Knurled nut	Hexagonal nut-M12	Knurled bezel-M12	Sealing cap-black Sea	aling cap-red
		\bigcirc			

Installation recommendations

See "Basic technical concepts"

For 83522: to ensure protection against electric shock, direct manual operation on the metal plunger is not permitted above 48 V.

How to order

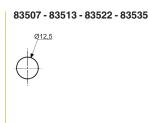
Use the 8 digit part numbers when they are defined

Other cases, precise:

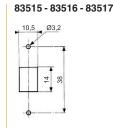
Type of switch/nb of poles - Function - Connection - UL approval* - Adaptation* + Mounting accessories* * if needed Example: 835073 I W3 UL + 70135750

Warning:

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W2 solder





W3 quick-connect 6.3 x 0.8