

Electromechanical Components

	Pushbuttons						Control Components				Signal Lamps			
	8 mm Series	LUMOTAST FK	LUMOTAST 25	LUMOTAST 75	Keylock switch	Other Pushbuttons	RAFIX 16/ RAFIX 16 F	RAFIX 22 FS PCB	RAFIX 22 FS quick connect	RAFIX 22 QR	Integral LED	Integral filament/ neon lamp	With lamp socket	
Panel cut-out	ø 8.1 mm	ø 16.2 mm	ø 16.2 mm	ø 16.2 mm	ø 16.2 mm	ø 9.1 – 20.3 mm	ø 16.2 mm □ 23.1 mm ø 22.3 mm	ø 22.3 mm	ø 22.3 mm	ø 22.3 mm	ø 5 – 10 mm	ø 5 – 14 mm	ø 9.1 – 30.5 mm	
Contacts	1 NO	1 NO	1 NO	1 NC + 1 NO, 2 NC + 2 NO	1...4 NO	1 NC, 1 NO, 1 NC + 1 NO, 2 NC	1 NC, 1 NO, 1 NC + 1 NO, 2 NC, 2 NO	1 NC, 1 NO, 1 NC + 1 NO, 2 NC, 2 NO	1 NC, 1 NO, 1 NC + 1 NO, 2 NC, 2 NO	1 NC, 1 NO, max. 6 NC, 6 NO	–	–	–	
Contact material	Au	Au	Au	Ag	Au	Ag	Ag / Au	Ag / Au	Ag / Au	Ag / Au	–	–	–	
Voltage max./min.	42 V	42 V / 0,02 V	42 V / 0,02 V	250 V	42 V	250 V / 0,02 V	250 V / 0,02 V	250 V / 0,02 V	250 V / 0,02 V	500 V / 0,02 V	28 V	6 - 230 V	42 / 250 V	
Current max./min.	250 mA	100 mA / 0,1 mA	100 mA / 0,1 mA	4 A	100 mA	2 A / 0,1 mA	6 A / 1 mA	4 A / 1 mA	4 A / 1 mA	10 A / 1 mA	0.25 - 1 W	0.3 - 1.2 W	1.2 - 5 W	
Terminals	Solder	Flat-ribbon cable with connector, PCB socket	Flat-ribbon cable with connector, PCB socket	Solder	PCB	Solder, screw, quick connect	PCB, quick-connect	PCB	quick-connect	Screw, spring-type, quick-connect, RJ 12	Solder, quick-connect	Solder, quick-connect or cable	Solder, quick-connect or screw	
Protection	IP 40	IP 65	IP 65	IP 40 / 65	IP 65	IP 40	IP 65	IP 65 / 69 K	IP 65 / 69 K	IP 65	IP 40	IP 40	IP 40 / 65	
Lamp socket	Bi-Pin T1	Bi-Pin T1/T1¼	Bi-Pin T1/T1¼	T 4.5	–	BA 9s	W 2x4.6d	LED	–	BA 9s	none	none	various	
Illumination	Filament lamp, LED	Filament lamp, LED	Filament lamp, LED	Filament lamp, LED	–	Filament lamp, LED	Filament lamp, LED	LED	LED clip	Filament lamp, neon lamp, LED	LED	Filament/ neon lamp	Filament/ neon lamp	
Collar shape	□	□ □ □	□	□ □ □	□ □	○	□ □	□ □	□ □	□ □	□ □	□ □	○	
Variants	Illuminated push-button, signal lamp	Illuminated push-button, signal lamp	Illuminated push-button, keylock, E-stop, selector switch, signal lamp	Illuminated push-button, keylock switch, signal lamp	Keylock, authorization lock switch	Illuminated push-button	Illuminated push-button, keylock, E-stop, selector, toggle switch, potentiometer drive, buzzer, signal indicator	Illuminated push-button, keylock, E-stop, selector switch, signal indicator	Illuminated push-button, keylock, E-stop, selector switch, signal indicator	Illuminated push-button, keylock, E-stop, selector switch, signal indicator				
	Short-Travel Keyswitches										Full-Travel Keyswitches RS 76	Keylock Switches		
	MICON and RACON			RF 15/19				KN 19	RK 90	RG 85 III				
	MICON 5	RACON 8	RACON 12	RF 15 / 15H	RF 15 R	RF 15 N	RF 19/19 H	KN 19	Keycaps RK 90	RG 85 III	RS 76M	RS 76C	Keylock switch	
Grid min.	6 x 8 mm	12 mm	15.24 mm	19.05 mm	15.24 mm	15.24 mm	23 mm	19.05 mm	12.5 / 19.05 mm	35 mm	19.05 mm	19.05 mm	19.05 mm	
Overall height, min.	3.85 mm, variable	5 mm, variable	5 mm, variable	9.7 / 12.5 mm	9.7 / 12.5 mm	9.7 / 12.5 mm	9.7 / 12.5 mm	9.7 mm		12.08 mm	15.5 mm	15.5 mm	40 mm	
Contacts	1 NO	1 NO	1 NO	1 NO	1 NO	1 NO	1 NO / 1 NC+1 NO	1 NC + 1 NO / 2 NC/2 NO		1 NO/1 NC + 1 NO	1 NO	1 NO	1 NO – 4 NO	
Contact material	Au	Au	Au	Ag / Au	Ag / Au	Ag / Au	Ag / Au	Ag		Ag	Au	contactless	Au	
Rated voltage	0.02...42 V	0.02...42 V	0.02...42 V	0.02...50 V	0.02...50 V	0.02...50 V	0.02...50 V	12...250 V		3...50 V	2...42 V	4.75...5.25 V	2...42 V	
Rated current	0.01...100 mA	0.01...100 mA	0.01...100 mA	0.01...250 mA	0.01...250 mA	0.01...250 mA	0.01...250 mA	6 A		0.1...250 mA	0.01...100 mA	–	0.01...100 mA	
Operating travel	0.6 ... 1.1 mm	0.34 mm	0.61 mm	0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.5 mm		1 mm	4 mm	4 mm	1.4 x 90° rotating angle	
Operating force	3.0 ... 8.5 N	3.3 N	3.6 N	2 - 3 N	2 - 3 N	2 - 3 N	2 - 3 N	9 ± 3 N		3.5 - 4.5 N	0.9...1.4 N	0.7...1 N	–	
Terminals	PCB / SMD	PCB / SMD	PCB / SMD	PCB	PCB	PCB	PCB	PCB		8-pin Micro Match connector	PCB	PCB	PCB	
Illumination	Separate LED	Separate LED	Separate LED	Full / Spot	Full / Spot	Spot	Full / Spot	Spot		Edge and symbol	Full / Spot	Spot	–	
Operating life min.	250,000 / 1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	100,000		1,000,000	10,000,000	100,000,000	10,000	
Special features	Variable height by use of plungers	Variable height by use of plungers	Variable height by use of plungers, 30° vertical adapter	1-module indicator field			Indicator fields 1/2-, 1- and 2-module	Main switch under overlay or keycaps		Plastic or aluminum surface, compatible to MICON, RACON, RF and KN 19	Vandal-proof	Fully illuminable keycaps (RS 76 MX)	Very soft stroke	Degree of protection IP 54 priority keylock switch