

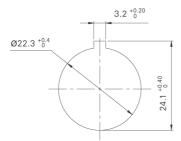
## RAMO 22 T - Pushbutton FLEXLAB without lens, white, collar square, M12

## 1.10.011.301/0201



Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles 250,000	General information	
Form of collar         square           Color lens         white           Dimensions         22.3 mm           Mounting hole         22.3 mm           Mechanical design         Contact         momentary, 1 NO           Contact materials         gold           Mounting         ring nut         Terminals           Reverse polarity protection         yes           Labeling         individually with FLEXLAB           Torque for nut ring         1.2 Nm           Mechanical characteristics         Operating force F1 (+/-20 %)         5 N           Electrical characteristics         Electrical characteristics         Electrical characteristics           Rated voltage min.         DC 0.02 V V           Rated voltage max.         DC 35 V           Rated voltage max.         DC 35 V           Rated oursent max.         100 mA           Rated power max.         1 W (ohmsche Last) W           LED power supply         DC 24 V +- 20% / 10 mA +- 20%           Other specifications         Ambient temp. operating min.         -40 °C           Ambient temp. operating min.         -40 °C           Ambient temp. operating min.         -70 °C           B10         500,000 cycle           Degree of protection	Form	FLEXLAB without lens
Color lens white  Dimensions  Mounting hole 22.3 mm  Mechanical design  Contact momentary, 1 NO  Contact materials gold  Mounting ring nut  Terminals M12  Reverse polarity protection yes  Labeling individually with FLEXLAB  Torque for nut ring 1.2 Nm  Mechanical characteristics  Operating force F1 (+/-20 %) 5 N  Electrical characteristics  Rated voltage min. DC 0.02 V V  Rated current min. 0.01 mA  Rated voltage max. DC 35 V  Rated ournent max. 100 mA  Rated power max. 1 W (ohmsche Last) W  LED power supply DC 24 V + 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min. 40 °C  Ambient temp. operating max. +70 °C  Bogree of protection from front side IP 66, IP 67, IP 69K  Degree of protection from rear side IP 66 (je nach verwendetem Stecker IP 67 oder IP 69K  Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles	Color of front ring	black
Mounting hole  22.3 mm  Mechanical design  Contact momentary, 1 NO  Contact materials gold  Mounting ring nut  Terminals M12  Reverse polarity protection yes  Labeling individually with FLEXLAB  Torque for nut ring 1.2 Nm  Mechanical characteristics  Operating force F1 (+/-20 %) 5 N  Electrical characteristics  Rated voltage min. DC 0.02 V V  Rated current min. 0.01 mA  Rated voltage max. DC 35 V  Rated voltage max. 100 mA  Rated ourrent max. 100 mA  Rated power max. 1 W (ohmsche Last) W  LED power supply DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min40 °C  Ambient temp. operating max. +70 °C  B10 500,000 cycle  Degree of protection from front side IP 66, IP 67, IP 69K  Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles  250,000	Form of collar	square
Mechanical design       Contact     momentary, 1 NO       Contact materials     gold       Mounting     ring nut       Terminals     M12       Reverse polarity protection     yes       Labeling     individually with FLEXLAB       Torque for nut ring     1.2 Nm       Mechanical characteristics     Operating force F1 (+/-20 %)     5 N       Electrical characteristics     Electrical characteristics       Rated voltage min.     DC 0.02 V V       Rated current min.     0.01 mA       Rated voltage max.     DC 35 V       Rated current max.     100 mA       Rated power max.     1 W (ohmsche Last) W       LED power supply     DC 24 V +- 20% / 10 mA +- 20%       Other specifications     Ambient temp. operating min.       Ambient temp. operating max.     +70 °C       B10     500,000 cycle       Degree of protection from front side     IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k       Environmental restistance     acc. to IEC 60068-2-14, -30, -33 and -78       Operating life cycles     250,000	Color lens	white
Mechanical design       Contact     momentary, 1 NO       Contact materials     gold       Mounting     ring nut       Terminals     M12       Reverse polarity protection     yes       Labeling     individually with FLEXLAB       Torque for nut ring     1.2 Nm       Mechanical characteristics     Operating force F1 (+/-20 %)       Operating force F1 (+/-20 %)     5 N       Electrical characteristics     Eated voltage min.       Rated voltage min.     DC 0.02 V V       Rated current min.     0.01 mA       Rated voltage max.     DC 35 V       Rated current max.     100 mA       Rated power max.     1 W (ohmsche Last) W       LED power supply     DC 24 V + 20% / 10 mA + - 20%       Other specifications     Ambient temp. operating min.       Ambient temp. operating max.     +70 °C       B10     500,000 cycle       Degree of protection from front side     IP 66 (Je nach verwendetem Stecker IP 67 oder IP 69k)       Environmental restistance     acc. to IEC 60068-2-14, -30, -33 and -78       Operating life cycles     250,000	<b>A</b>	
Mechanical design Contact materials  Mounting ring nut Terminals M12 Reverse polarity protection yes Labeling individually with FLEXLAB Torque for nut ring 1.2 Nm  Mechanical characteristics Operating force F1 (+/-20 %) 5 N  Electrical characteristics Rated voltage min. DC 0.02 V V Rated current min. 0.01 mA Rated voltage max. DC 35 V Rated current max. 100 mA Rated power max. 1 W (ohmsche Last) W LED power supply DC 24 V +- 20% / 10 mA +- 20%  Other specifications Ambient temp. operating max. +70 °C B10 500,000 cycle Degree of protection from rear side IP 66 (je nach verwendetem Stecker IP 67 oder IP 694) Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78 Operating life cycles		00.0
Contact materials  Gold  Mounting  Ferminals  M12  Reverse polarity protection  Labeling  Torque for nut ring  Mechanical characteristics  Operating force F1 (+/-20 %)  Electrical characteristics  Rated voltage min.  Rated voltage min.  Rated current min.  Rated voltage max.  Rated current max.  DC 35 V  Rated current max.  100 mA  Rated power max.  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min.  Ambient temp. operating max.  B10  Degree of protection from front side  Degree of protection from rear side  Environmental restistance  acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles	Mounting note	22.3 mm
Contact materials  Mounting  Terminals  M12  Reverse polarity protection  Labeling  Torque for nut ring  Mechanical characteristics  Operating force F1 (+/-20 %)  Electrical characteristics  Rated voltage min.  DC 0.02 V V  Rated current min.  Rated voltage max.  DC 35 V  Rated current max.  Rated power max.  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating max.  B10  Day C  Ambient temp. operating max.  B10  Degree of protection from front side  Degree of protection from rear side  Environmental restistance  Operating life cycles  250,000	Mechanical design	
Mounting ring nut Terminals M12 Reverse polarity protection yes Labeling individually with FLEXLAB Torque for nut ring 1.2 Nm  Mechanical characteristics Operating force F1 (+/-20 %) 5 N  Electrical characteristics Rated voltage min. DC 0.02 V V Rated current min. 0.01 mA Rated voltage max. DC 35 V Rated current max. 100 mA Rated power max. 1 W (ohmsche Last) W LED power supply DC 24 V +- 20% / 10 mA +- 20%  Other specifications Ambient temp. operating min40 °C Ambient temp. operating max. +70 °C B10 500,000 cycle Degree of protection from front side IP 66, IP 67, IP 69K Degree of protection from rear side acc. to IEC 60068-2-14, -30, -33 and -78 Operating life cycles 250,000	Contact	momentary, 1 NO
Terminals M12 Reverse polarity protection yes Labeling individually with FLEXLAB Torque for nut ring 1.2 Nm  Mechanical characteristics Operating force F1 (+/-20 %) 5 N  Electrical characteristics Rated voltage min. DC 0.02 V V Rated current min. 0.01 mA Rated voltage max. DC 35 V Rated current max. 100 mA Rated power max. 1 W (ohmsche Last) W LED power supply DC 24 V +- 20% / 10 mA +- 20%  Other specifications Ambient temp. operating min40 °C Ambient temp. operating max. +70 °C B10 500,000 cycle Degree of protection from front side IP 66, IP 67, IP 69K Degree of protection from rear side IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k) Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78 Operating life cycles 250,000	Contact materials	gold
Reverse polarity protection Labeling Individually with FLEXLAB Torque for nut ring  Mechanical characteristics Operating force F1 (+/-20 %)  Electrical characteristics Rated voltage min. DC 0.02 V V Rated current min. 0.01 mA Rated voltage max. DC 35 V Rated current max. 100 mA Rated power max. 1 W (ohmsche Last) W LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications Ambient temp. operating min. Ambient temp. operating max. 470 °C B10 Degree of protection from front side Degree of protection from rear side  Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78 Operating life cycles	Mounting	ring nut
Labeling individually with FLEXLAB  Torque for nut ring 1.2 Nm  Mechanical characteristics Operating force F1 (+/-20 %) 5 N  Electrical characteristics Rated voltage min. DC 0.02 V V Rated current min. 0.01 mA Rated voltage max. DC 35 V Rated current max. 100 mA Rated power max. 1 W (ohmsche Last) W LED power supply DC 24 V +- 20% / 10 mA +- 20%  Other specifications Ambient temp. operating min40 °C Ambient temp. operating max. +70 °C B10 500,000 cycle Degree of protection from front side IP 66, IP 67, IP 69K Degree of protection from rear side IP 66 (je nach verwendetem Stecker IP 67 oder IP 69)  Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78 Operating life cycles 250,000	Terminals	M12
Torque for nut ring  Mechanical characteristics Operating force F1 (+/-20 %)  Electrical characteristics Rated voltage min. DC 0.02 V V Rated current min. DC 35 V Rated voltage max. DC 35 V Rated current max. 100 mA Rated power max. 1 W (ohmsche Last) W LED power supply DC 24 V +- 20% / 10 mA +- 20%  Other specifications Ambient temp. operating min40 °C Ambient temp. operating max. +70 °C B10 Degree of protection from front side Degree of protection from rear side  Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78 Operating life cycles	Reverse polarity protection	yes
Mechanical characteristics Operating force F1 (+/-20 %)  Electrical characteristics Rated voltage min. DC 0.02 V V Rated current min. O.01 mA Rated voltage max. DC 35 V Rated current max. 100 mA Rated power max. 1 W (ohmsche Last) W LED power supply DC 24 V +- 20% / 10 mA +- 20%  Other specifications Ambient temp. operating min40 °C Ambient temp. operating max. +70 °C B10 Degree of protection from front side Degree of protection from rear side  IP 66, IP 67, IP 69K Degree of protection from rear side  Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78 Operating life cycles	Labeling	individually with FLEXLAB
Departing force F1 (+/-20 %)   5 N	Torque for nut ring	1.2 Nm
Departing force F1 (+/-20 %)   5 N	Mechanical characteristics	
Electrical characteristics  Rated voltage min.  Rated current min.  Rated voltage max.  DC 35 V  Rated current max.  100 mA  Rated power max.  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min.  Ambient temp. operating max.  B10  Degree of protection from front side  Degree of protection from rear side  Environmental restistance  Operating life cycles  DC 0.02 V V  DC 0.02 V V  DC 35 V  Rated current max.  100 mA  1 W (ohmsche Last) W  DC 24 V +- 20% / 10 mA +- 20%  1 P 66 °C  Ambient temp. operating max.  470 °C  B10  Degree of protection from front side  Degree of protection from rear side		5 N
Rated voltage min.  Rated current min.  O.01 mA  Rated voltage max.  DC 35 V  Rated current max.  100 mA  Rated power max.  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min.  -40 °C  Ambient temp. operating max.  H70 °C  B10  Degree of protection from front side  Degree of protection from rear side  Environmental restistance  Operating life cycles  DC 0.02 V V  DC 35 V  And Max	<u> </u>	
Rated current min.  Rated voltage max.  DC 35 V  Rated current max.  100 mA  Rated power max.  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min.  -40 °C  Ambient temp. operating max.  +70 °C  B10  Degree of protection from front side  Degree of protection from rear side  IP 66, IP 67, IP 69K  Degree of protection from rear side  Environmental restistance  Operating life cycles  250,000		
Rated voltage max.  Rated current max.  100 mA  Rated power max.  1 W (ohmsche Last) W  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min.  -40 °C  Ambient temp. operating max.  +70 °C  B10  500,000 cycle  Degree of protection from front side  Degree of protection from rear side  IP 66, IP 67, IP 69K  Degree of protection from rear side  Environmental restistance  acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles  250,000		
Rated current max.  Rated power max.  1 W (ohmsche Last) W  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min.  -40 °C  Ambient temp. operating max.  +70 °C  B10  Degree of protection from front side  Degree of protection from rear side  IP 66, IP 67, IP 69K  Degree of protection from rear side  Environmental restistance  acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles  250,000	Rated current min.	
Rated power max.  LED power supply  DC 24 V +- 20% / 10 mA +- 20%  Other specifications  Ambient temp. operating min.  Ambient temp. operating max.  +70 °C  B10  Degree of protection from front side  Degree of protection from rear side  P 66, IP 67, IP 69K  Degree of protection from rear side  Environmental restistance  Operating life cycles  1 W (ohmsche Last) W  DC 24 V +- 20% / 10 mA +- 20%  -40 °C  -40 °C	-	
LED power supplyDC 24 V +- 20% / 10 mA +- 20%Other specificationsAmbient temp. operating min40 °CAmbient temp. operating max.+70 °CB10500,000 cycleDegree of protection from front sideIP 66, IP 67, IP 69KDegree of protection from rear sideIP 66 (je nach verwendetem Stecker IP 67 oder IP 69kEnvironmental restistanceacc. to IEC 60068-2-14, -30, -33 and -78Operating life cycles250,000	Rated current max.	
Other specifications  Ambient temp. operating min.  Ambient temp. operating max.  B10  Degree of protection from front side  Degree of protection from rear side  IP 66, IP 67, IP 69K  Degree of protection from rear side  IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k  Environmental restistance  Operating life cycles  250,000	Rated power max.	
Ambient temp. operating min.  Ambient temp. operating max.  +70 °C  500,000 cycle  Degree of protection from front side  Degree of protection from rear side  IP 66, IP 67, IP 69K  IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k  Environmental restistance  Operating life cycles  250,000	LED power supply	DC 24 V +- 20% / 10 mA +- 20%
Ambient temp. operating min.  Ambient temp. operating max.  +70 °C  500,000 cycle  Degree of protection from front side  Degree of protection from rear side  IP 66, IP 67, IP 69K  IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k  Environmental restistance  Operating life cycles  250,000	Other specifications	
Ambient temp. operating max. +70 °C  B10 500,000 cycle  Degree of protection from front side IP 66, IP 67, IP 69K  Degree of protection from rear side IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k  Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles 250,000	•	-40 °C
B10  Degree of protection from front side  Degree of protection from rear side  IP 66, IP 67, IP 69K  IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k  Environmental restistance  acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles  250,000	· · ·	+70 °C
Degree of protection from front side  IP 66, IP 67, IP 69K  Degree of protection from rear side  IP 66 (je nach verwendetem Stecker IP 67 oder IP 69k  Environmental restistance  acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles  250,000	· · ·	500,000 cycle
Environmental restistance acc. to IEC 60068-2-14, -30, -33 and -78  Operating life cycles 250,000	Degree of protection from front side	
Operating life cycles 250,000	Degree of protection from rear side	IP 66 (je nach verwendetem Stecker IP 67 oder IP 69K)
	Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant ves	Operating life cycles	250,000
Torre compilant yes	ROHS compliant	yes
REACH compliant yes	REACH compliant	yes





Einbauöffnung nach IEC 60947-5-1

