

## TR Series Push Button & LED Indicators

### Technical data

Standard	IEC 60947-5-1
Rated Insulation voltage $U_i$ (V)	400 V
Rated Frequency(Hz)	50/60Hz
Impulse voltage wear resistance	6000V
Rated current	6A(230V AC);0.3A(230V DC)
Short circuit protection	safety device 10A gG outside in the circuit
Mechanical wear resistance	1x10 <sup>6</sup> commutation cycles
Power of mechanical compression at closing	20N
Power of mechanical compression at opening	8N
Operating temperature (°C)	-20 ~ +65
Humidity	35-85%RH
Tightening moment of the joining conductors	0.15Nm
Section of the conductor	1x0.5; 1x0.75; 1x1; 1x1.5;1x2.5mm <sup>2</sup>
To a flat metal or plastic surface with thickness	max 4mm
Opening with size	Ø 22.5mm



# Push Buttons

Picture	Outline	Color	Type of contacts	Plastic/Metal
		○	1NO	TRB-22D-W
		●	1NO	TRB-22D-BK
		●	1NO	TRB-22D-G
		●	1NO	TRB-22D-Y
		●	1NO	TRB-22D-B
		○	1NO	TRB-22D-W-C
		●	1NO	TRB-22D-BK-C
		●	1NO	TRB-22D-G-C
		●	1NO	TRB-22D-Y-C
		●	1NO	TRB-22D-B-C
		○	1NO	TRB-22D-W-M
		●	1NO	TRB-22D-BK-M
		●	1NO	TRB-22D-G-M
		●	1NO	TRB-22D-Y-M
		●	1NO	TRB-22D-B-M
		○	1NO	TRB-22D-W-MO
		●	1NO	TRB-22D-BK-MO
		●	1NO	TRB-22D-G-MO
		●	1NO	TRB-22D-Y-MO
		●	1NO	TRB-22D-B-MO
		●	1NC	TRB-22D-R-MO

Picture	Outline	N° of position	Type of contacts	Plastic/Metal	
		2°	∨	1NO	TRB-ED21
			∇	1NO+1NC	TRB-ED25
		3°	∨	1NO	TRB-ED41
			∇	1NO+1NC	TRB-ED45
			∇	2NO	TRB-ED33
		2°	∨	2NO	TRB-ED53
			∇	2NO	TRB-ED73
		3°	∇	2NO	TRB-ED83
			∇	1NO	TRB-EG21
			∇	1NO+1NC	TRB-EG25
		2°	∨	1NO	TRB-EG41
			∇	1NO+1NC	TRB-EG45
		3°	∇	2NO	TRB-EG33
			∇	2NO	TRB-EG53
			∇	1NO	TRB-BD21
		2°	∨	1NO+1NC	TRB-BD25
			∇	1NO	TRB-BD41
		3°	∇	1NO+1NC	TRB-BD45
			∇	2NO	TRB-BD33
			∇	2NO	TRB-BD53
		2°	∨	2NO	TRB-BD73
			∇	2NO	TRB-BD83
		3°	∇	1NO	TRB-BG21
			∇	1NO+1NC	TRB-BG25
			∇	1NO	TRB-BG41
3°	∇	1NO+1NC	TRB-BG45		
	∇	2NO	TRB-BG33		
		∇	2NO	TRB-BG53	

# Start-Stop Buttons

Picture	Outline	Description	Type of contacts	Plastic/Metal
		Red spring reverse "Mushroom" type	1NC	TGB2-ES442G TGB2-ES542G TGB2-ES642G
		Green&Red double button	1NO+1NC	TGB2-EL8325 TGB2-EL9325
 Pushbutton Indicators		White color Green color Yellow color Blue color Red color	1NO	TRIB-22D-R-240 TRIB-22D-G-240 TRIB-22D-Y-240 TRIB-22D-B-240 TRIB-22D-R-240
		Red color	1NC	TRIB-22D-R-240-NC
		Red spring reverse "Mushroom" type	1NC	TGB2-BS442G TGB2-BS542G TGB2-BS642G
		Green&Red double button	1NO+1NC	TGB2-BL8325 TGB2-BL-9325
 Pushbutton Indicators		White color Green color Yellow color Blue color	1NO	TGB2-BW3161 TGB2-BW3361 TGB2-BW3561 TGB2-BW3661
		Red color	1NC	TGB2-BW3462

## Toggle Switch with LED Indicator


Picture	Outline	Color	N° of position & Type of contacts	Plastic/Metal
		<ul style="list-style-type: none"> <li>○</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	2 <sup>o</sup> position 1NO+1NC	SGB2-EK2765 SGB2-EK2365 SGB2-EK2565 SGB2-EK2665 SGB2-EK2465
		<ul style="list-style-type: none"> <li>○</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	3 <sup>o</sup> position 1NO+1NC	SGB2-EK3765 SGB2-EK3365 SGB2-EK3565 SGB2-EK3665 SGB2-EK3465
		<ul style="list-style-type: none"> <li>○</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	2 <sup>o</sup> position 1NO+1NC	SGB2-BK2765 SGB2-BK2365 SGB2-BK2565 SGB2-BK2665 SGB2-BK2465
		<ul style="list-style-type: none"> <li>○</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	3 <sup>o</sup> position 1NO+1NC	SGB2-BK3765 SGB2-BK3365 SGB2-BK3565 SGB2-BK3665 SGB2-BK3465


# Panel Indicators


Picture	Outline	Color	Description	Reference
		○	LED 220/240VAC 50/60Hz	TRI-22-W
		●		TRI-22-G
		●		TRI-22-Y
		●		TRI-22-B
		●		TRI-22-R












Picture	Outline	Color	Description	Reference
		LED White  LED Green  LED Yellow  LED Blue  LED Red	12VAC/DC 24VAC/DC 48VAC/DC 110VAC/DC 230VAC 400VAC	TGD22-22D-W-12 TGD22-22D-W-24 TGD22-22D-W-48 TGD22-22D-W-110 TGD22-22D-W-230 TGD22-22D-W-400
			12VAC/DC 24VAC/DC 48VAC/DC 110VAC/DC 230VAC/DC 400VAC/DC	TGD22-22D-G-12 TGD22-22D-G-24 TGD22-22D-G-48 TGD22-22D-G-110 TGD22-22D-G-230 TGD22-22D-G-400
			12VAC/DC 24VAC/DC 48VAC/DC 110VAC/DC 230VAC 400VAC	TGD22-22D-Y-12 TGD22-22D-Y-24 TGD22-22D-Y-48 TGD22-22D-Y-110 TGD22-22D-Y-230 TGD22-22D-Y-400
			12VAC/DC 24VAC/DC 48VAC/DC 110VAC/DC 230VAC 400VAC	TGD22-22D-B-12 TGD22-22D-B-24 TGD22-22D-B-48 TGD22-22D-B-110 TGD22-22D-B-230 TGD22-22D-B-400
			12VAC/DC 24VAC/DC 48VAC/DC 110VAC/DC 230VAC 400VAC	TGD22-22D-W-12 TGD22-22D-W-24 TGD22-22D-W-48 TGD22-22D-W-110 TGD22-22D-W-230 TGD22-22D-W-400
With audible alarm		LED Red	12VAC/DC 24VAC/DC 48VAC/DC 110VAC/DC 230VAC 400VAC	TGD22-22D-R-12 TGD22-22D-R-24 TGD22-22D-R-48 TGD22-22D-R-110 TGD22-22D-R-230 TGD22-22D-R-400

### Accessories for Push button

Picture	Type of contacts	Description	Reference
	1NO	base for TGB2	TGB2-NO
	1NC	base for TGB2	TGB2-NC

Picture	Contact auxiliary	Description	Reference
	25X11	brand frame for TGB2	TA800E-P08
	25X18	brand frame for TGB2	TA800E-P12

Picture	Contact auxiliary	Description	Reference
	φ 60	alarm circle	TA800E-P16

Picture	Contact auxiliary	Description	Reference
Replacement LED Beads 	220/240VAC		TA800E-LW230
			TA800E-LG230
			TA800E-LY230
			TA800E-LB230
			TA800E-LR230
	24VAC/DC		TA800E-LW24
			TA800E-LG24
			TA800E-LY24
			TA800E-LB24
			TA800E-LR24