

Pictograms of the table head

U_m Nominal control voltage	P_n Rated power	 Rated power	 Notes, additions
U_{pr} Primary voltage	U_{sec} Secondary voltage	I_{sec} Secondary current	P_{sec} Secondary power values
 Two position	 Three position	 Key takeout position (left)	 Key takeout position (left and right)
 Key takeout position (middle)	 Key takeout position	 REL-ON Releasing: by turning	 REL-ON Releasing: with key
 NC NO Electric data of contacts	 Light (LED) units	 Dimension	 Tape of socket
 Nm Tighten torque	 M Thread	 Quick-connecting terminals	 Cable glands
 Basis type	 IP44 With enclosure IP 44	IP.. Protection degree	 Colour
 m Weight			

Pictograms of the technical data

230/400 V AC Rated voltage (V)	U_m max. 400 V Nominal control voltage	 U_i 660 V Rated insulation voltage	U_{imp} 6 kV Rated impulse withstand voltage
I_e (AC 1, 230 V) 15 A Nominal operational current	50/60 Hz Rated frequency	 10 A gG Suggested backup fuse	[mm²] 0,5-2,5 Connectable cable
 The operator heads can be turned in 90° steps!	 The operator heads can be turned in 90° steps, the arm in 180° steps!	F_{on} max. 20 N Switching on force	F_{off} max. 15 N Switching off force
 ×10⁶ Mechanical life	E +120 °C Heat-proof category	 Protection class: I.	ON-OFF-ON... sc/h ×3.600 Switching frequency (C-O cycles/hour)
IP 42 Protection degree (installed, from the front side)	IP 20 Protection of terminals (basic)	IP 55 Protection degree	 Vibration resistance
 % rH max. 95 Relative humidity	T_a -25...+55 °C Ambient temperature		



LS15 limit switches 2



LS7 limit switches 5



LSME limit switches 8



VP limit switches 12



VT limit switches 16



VM limit switches 20



KW limit switches (micro switches) 24



Pushbuttons, basic 26



Pushbuttons, protruding 26



Pushbuttons with light 28



Pushbuttons with signal 28



Pushbuttons with mushroom head 29



Double ON-OFF switches 30



Knob handle switches with light 31



Key switches 31



Contact units 32



Protection covers 32



LJL type LED signal lamps 34



Normal signal bulbs 35



Simple pushbuttons 36



Pushbuttons with symbols 37



Pushbuttons with built-in signal light (Ba9s) 37



Pushbuttons with mushroom head 38



Double on-off pushbuttons 39



Selector switches 41



Key switches 42



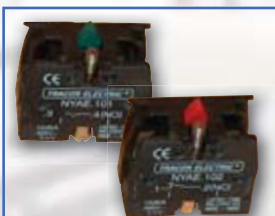
Selector switches with built-in signal light (Ba9s) 42



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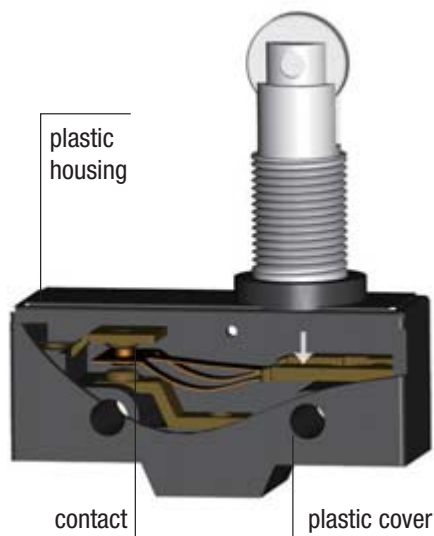
One phase isolating transformers TVTR 52



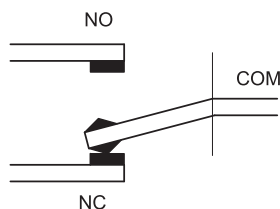
One phase isolating safety transformers TVTRB 54

LS15 limit switches, version with spring handle

I_{th} 15 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 13, 250 V) 0,3 A	U_i 500 V	[mm²] 0,5-1,5	×10⁶ x1.800	ON-OFF-ON... sc/h	T_a -25...+55°C	IP 00
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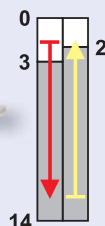
Type of contact: C



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EN 60947-5-1

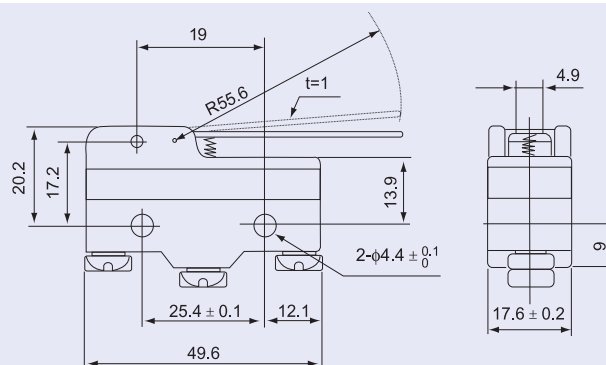
- Strong housing
- Changeover contact
- Contact point for ring terminals
- Easy wire connection
- With different type switching mechanism

Version with spring handle

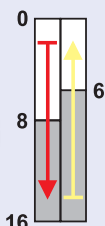


Operating distance (mm)

TRACON LS15GM-B

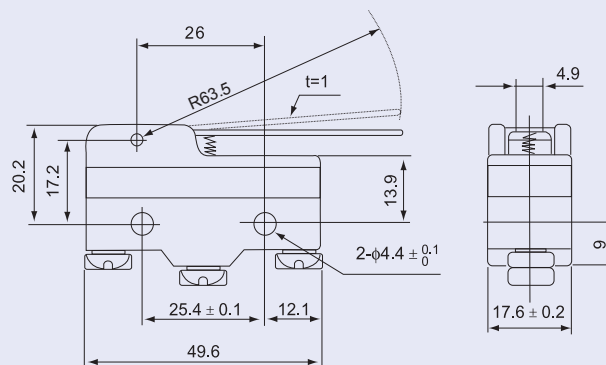


Version with spring handle

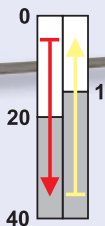


Operating distance (mm)

TRACON LS15GW-B

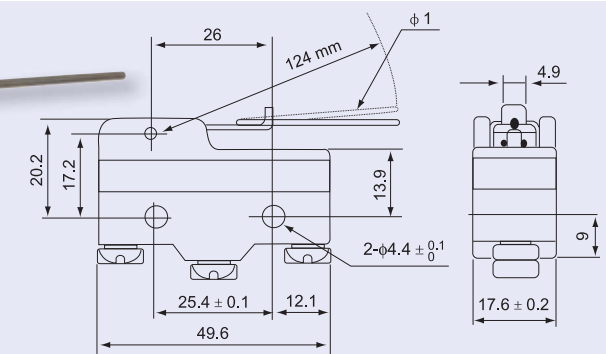


Version with spring handle

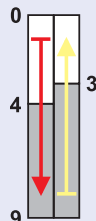


Operating distance (mm)

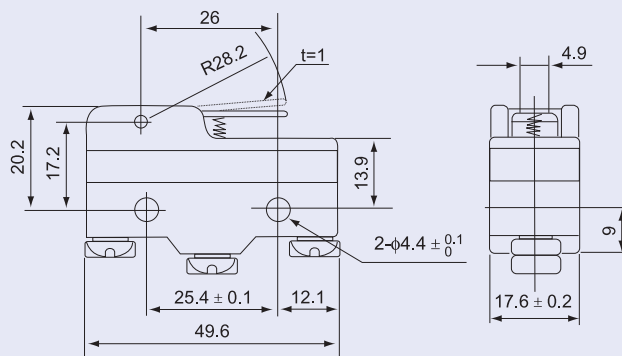
TRACON LS15HW24-B



Version with spring handle

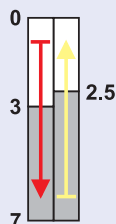


Operating distance (mm)

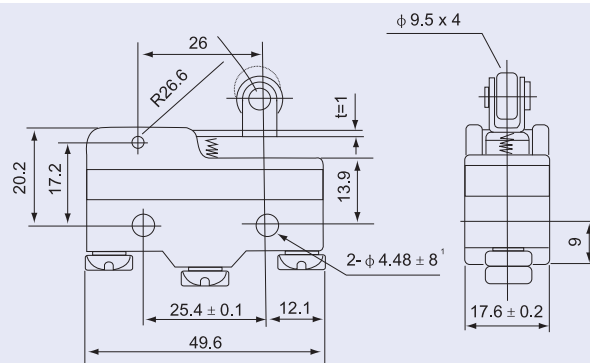


TRACON LS15GW21-B

Version with spring handle and roll

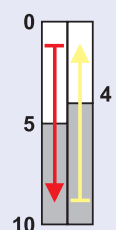


Operating distance (mm)

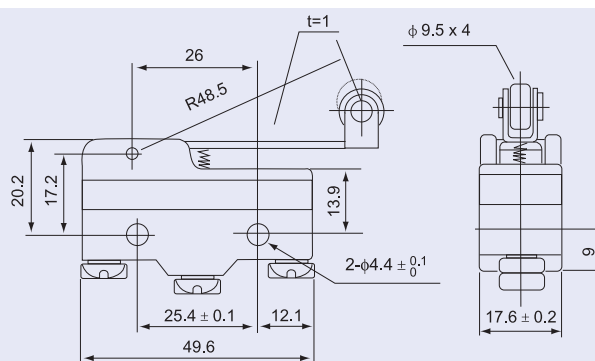


TRACON LS15GW22-B

Version with spring handle and roll

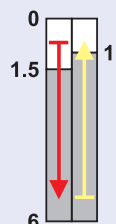


Operating distance (mm)

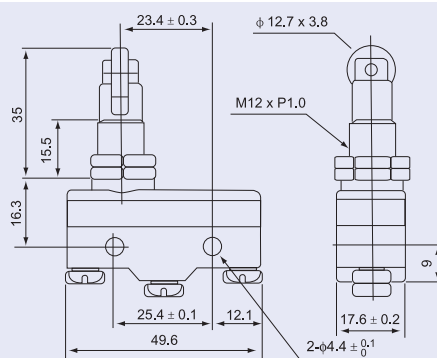


TRACON LS15GW2-B

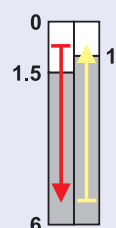
Version with roll



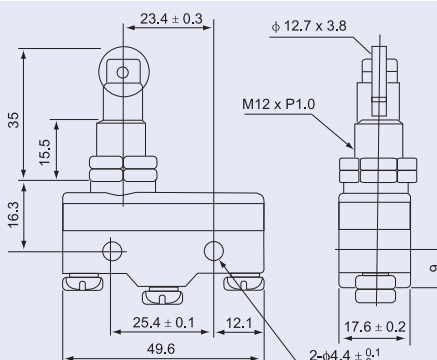
Operating distance (mm)

TRACON
LS15GQ21-B

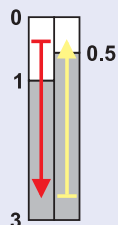
Version with roll



Operating distance (mm)

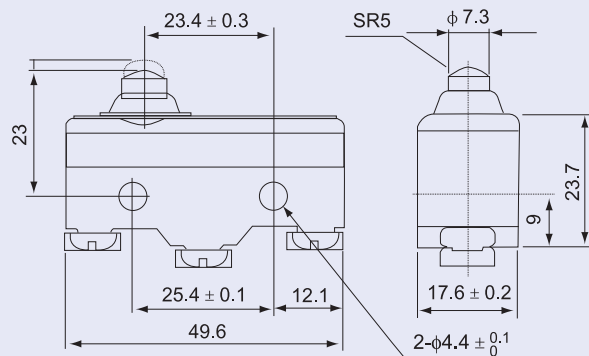
TRACON
LS15GQ22-B

Version with cone bumper

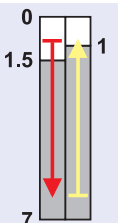


Operating distance (mm)

TRACON LS15GD-B

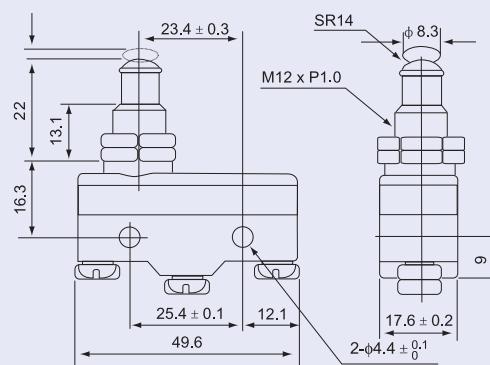


Version with cone bumper

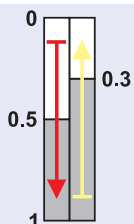


Operating distance (mm)

TRACON LS15GQ-B

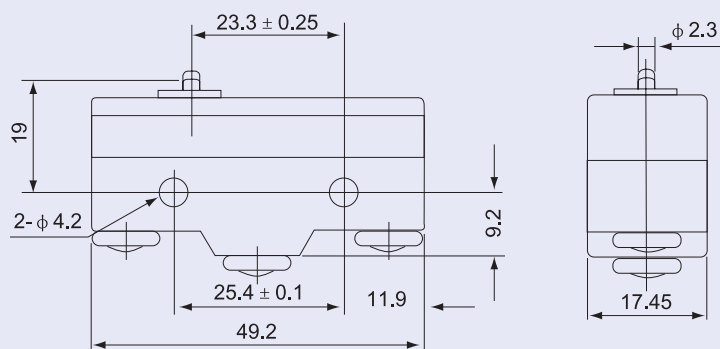


Version with bumper



Operating distance (mm)

TRACON LS15G-B



Cover for LS15 limit switch



IP 40



TRACON LS15-COV



Relays



J/2-J/9

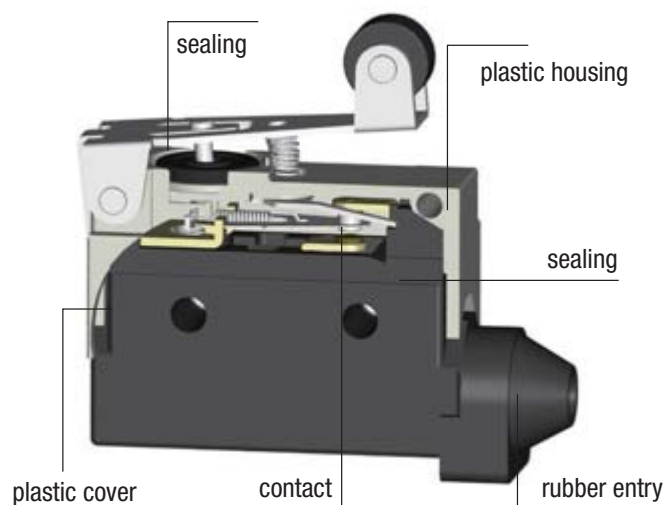
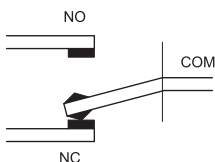
LS7 limit switches, version with spring handle

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 13, 250 V) 0,3 A	U_i 500 V	[mm²] 0,5-1,5	ON-OFF-ON... sc/h ×1.800	T_a -25...+55°C	IP 40
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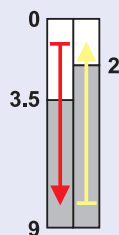
RELEVANT STANDARD
EN 60947-5-1

Type of contact: C

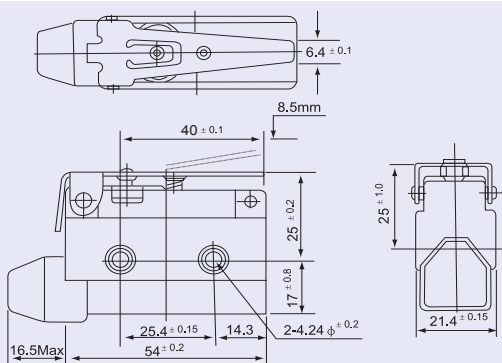


- Strong housing
- Changeover contact
- Contact point for ring terminals
- Easy wire connection
- With different type switching mechanism

Version with spring handle

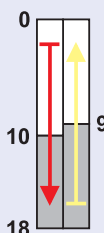


Operating distance (mm)

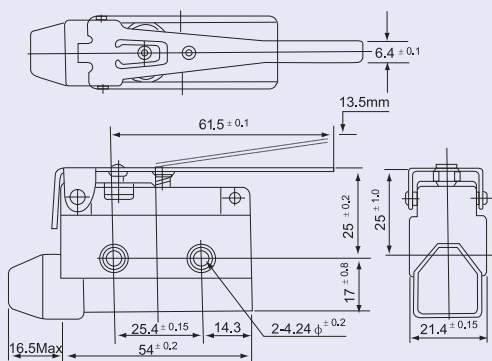


TRACON LS7140

Version with spring handle

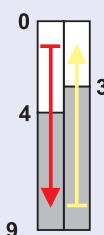


Operating distance (mm)

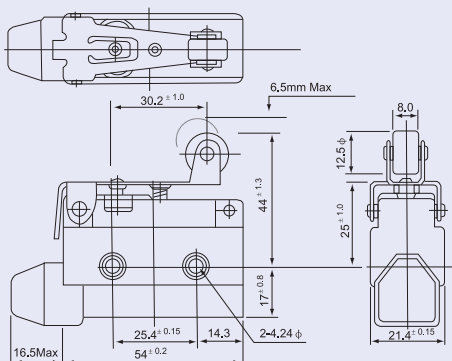


TRACON LS7120

Version with spring handle and roll

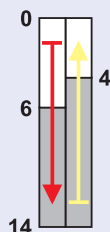


Operating distance (mm)



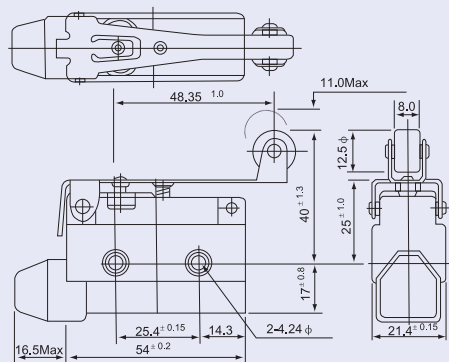
TRACON LS7141

Version with spring handle and roll

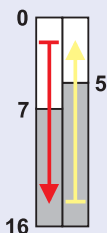


Operating distance (mm)

TRACON **LS7121**

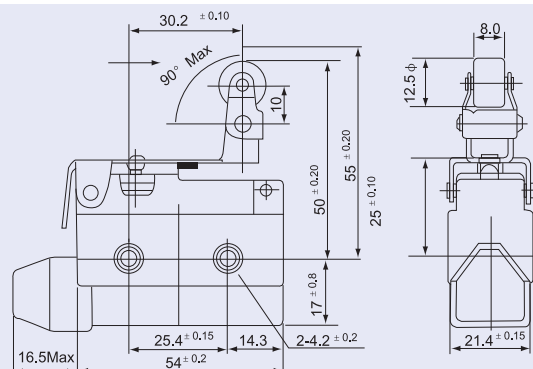


Version with spring handle and jointed roll

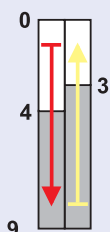


Operating distance (mm)

TRACON **LS7144**

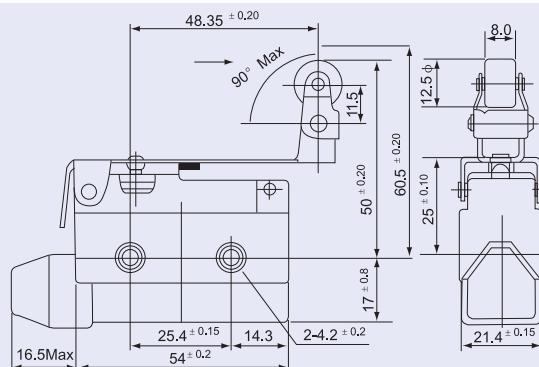


Version with spring handle and jointed roll

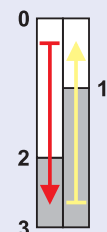


Operating distance (mm)

TRACON **LS7124**

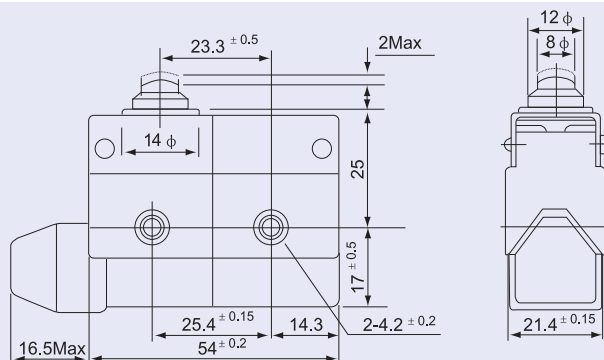


Version with cone bumper

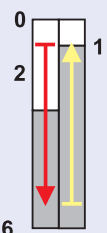


Operating distance (mm)

TRACON **LS7100**

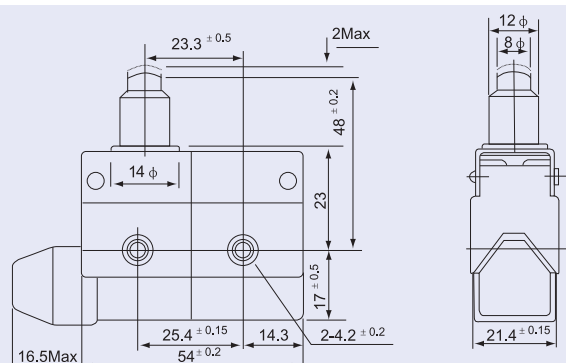


Version with cone bumper

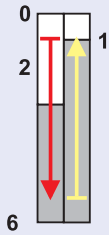


Operating distance (mm)

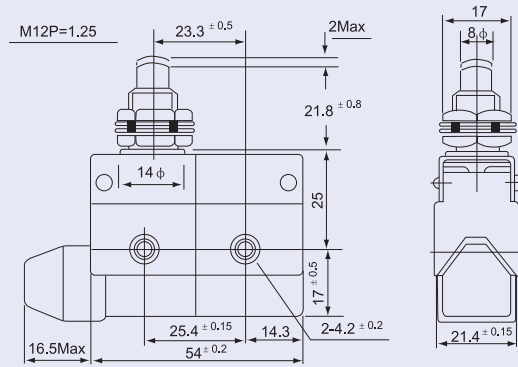
TRACON **LS7110**



Version with cone bumper



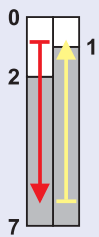
Operating distance (mm)



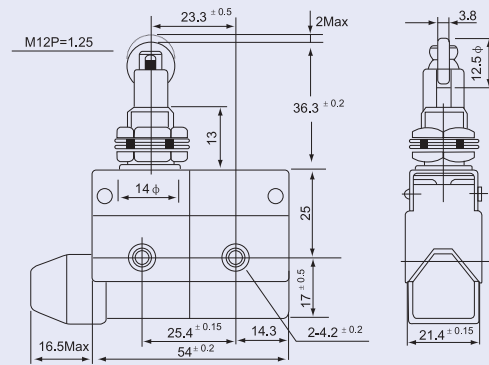
TRACON

LS7310

Version with roll



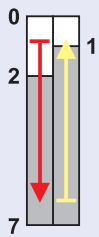
Operating distance (mm)



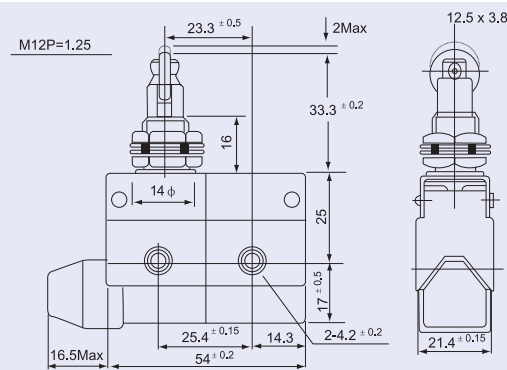
TRACON

LS7311

Version with roll



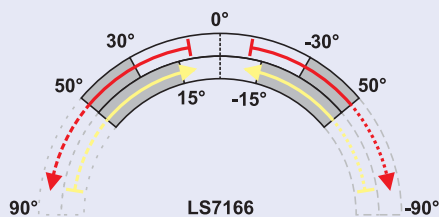
Operating distance (mm)



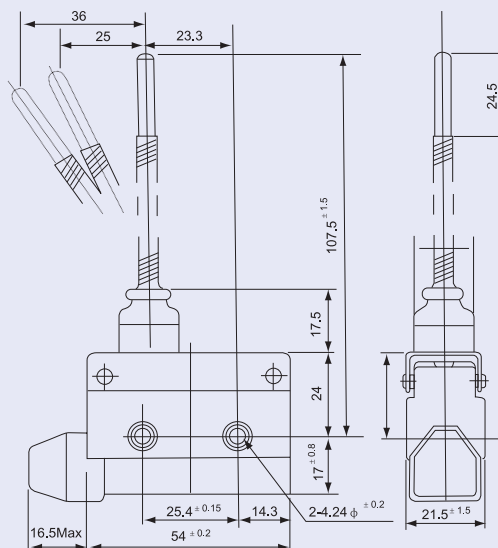
TRACON

LS7312

Version with spring stick



Operating distance (°)

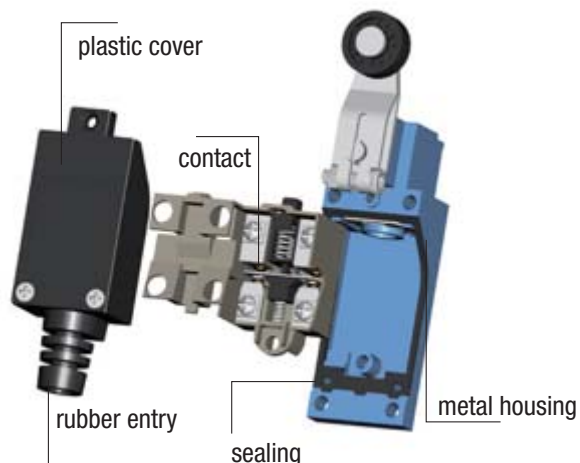


TRACON

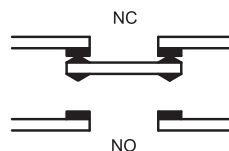
LS7166

LSME limit switches

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 13, 230 V) 0,3 A	U_i 500 V	[mm²] 0,5-1,5	×10⁶ ×1.800	ON-OFF-ON... sc/h	T_a -25...+55°C	IP 65
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Type of contact: Za



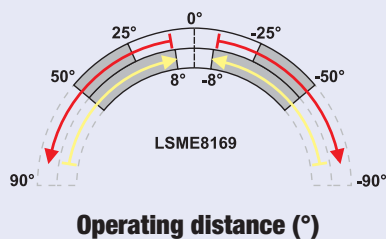
RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

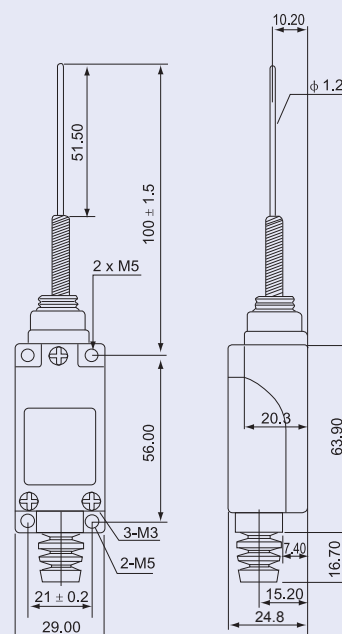
- double contacts
- massive construction
- plastic and aluminum die-cast
- water- and oilproof

- double spring mechanism
- long lifetime
- easy wiring

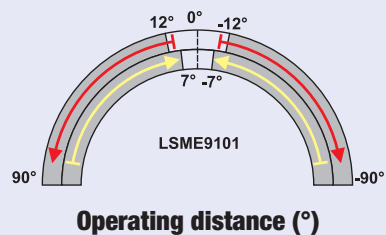
Version with spring stick



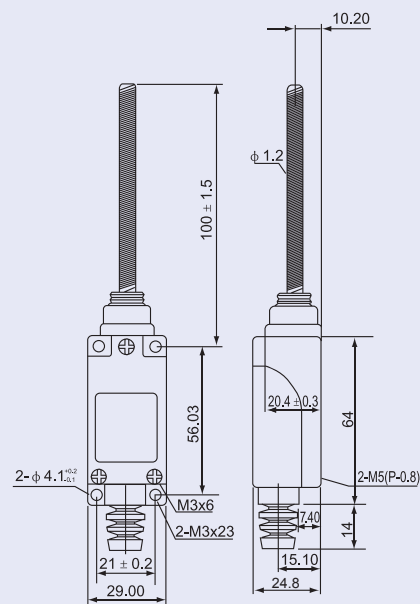
TRACON LSME8169



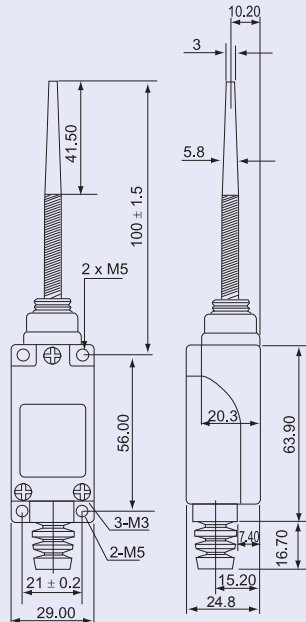
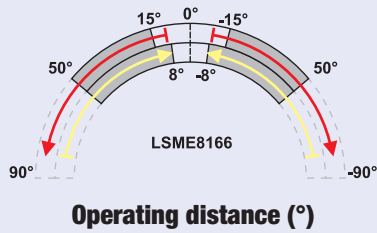
Version with spring stick



TRACON LSME9101

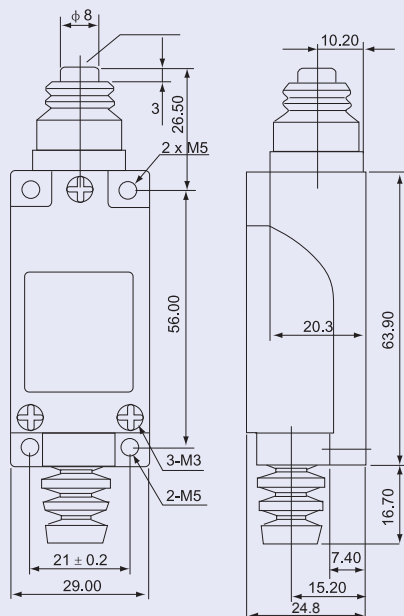
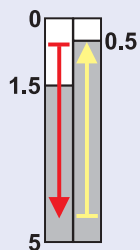


Version with spring stick



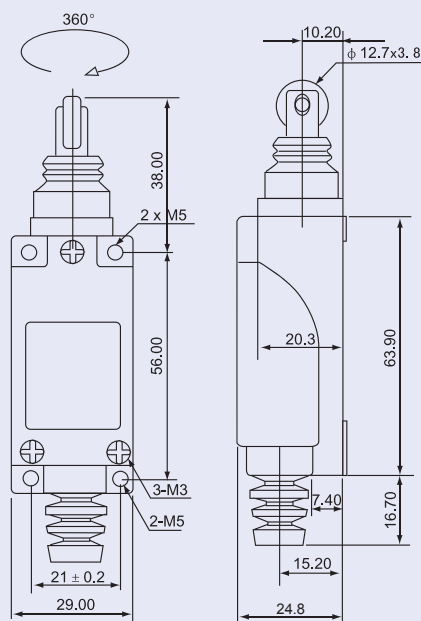
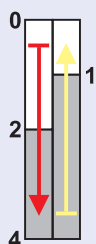
TRACON LSME8166

Version with cone bumper



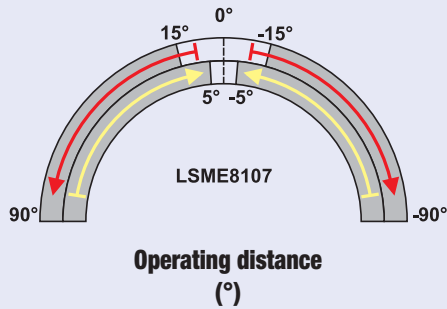
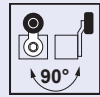
TRACON LSME8111

Version with roll

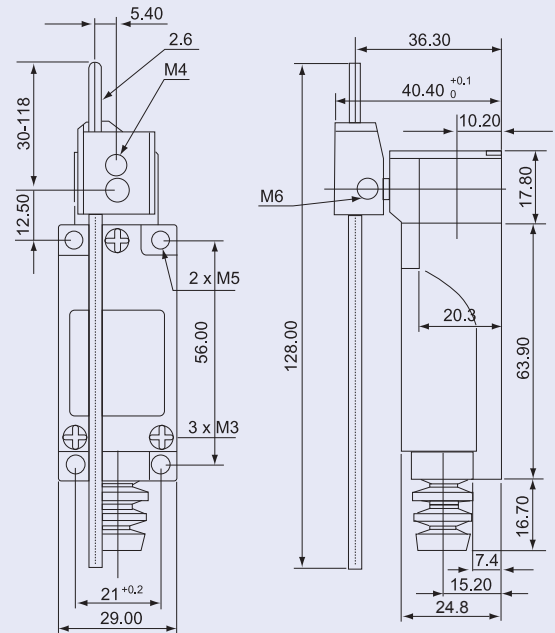


TRACON LSME8122

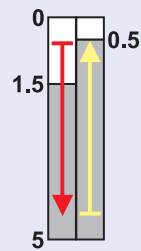
Version with twisting arm and stick



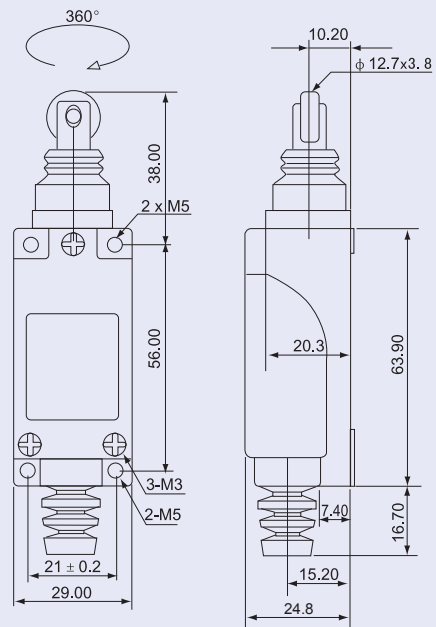
TRACON LSME8107



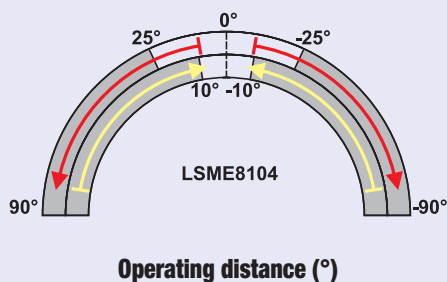
Version with roller bumper



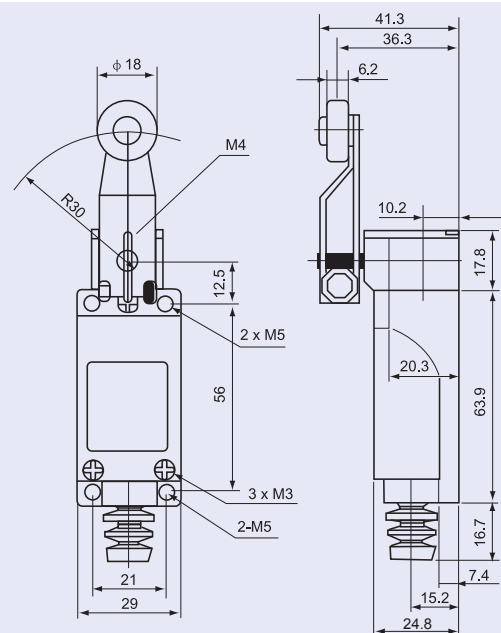
TRACON LSME8112



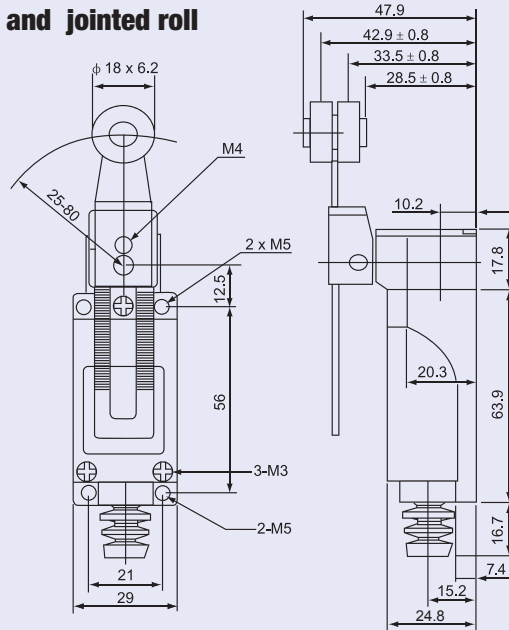
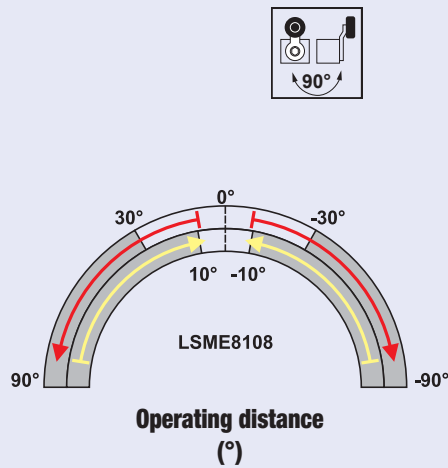
Version with twisting arm and roll



TRACON LSME8104



Version with adjustable spring handle and jointed roll



TRACON LSME8108

IF YOU NEED THE BEST GRIP!

Wide color and size range

High quality

TRACON
.....ELECTRIC®



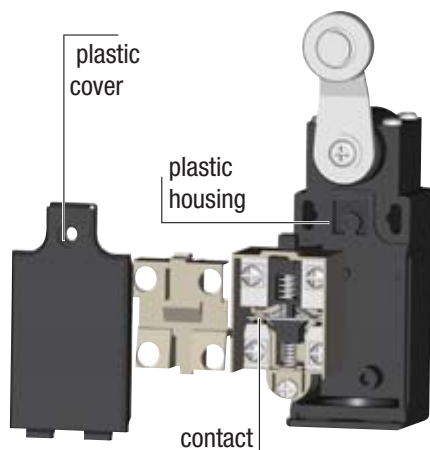
SCAN THE QR CODE!

- Check our new products
- Be updated

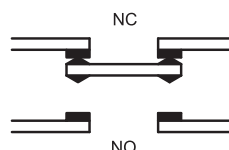
Our range of products is continuously and quickly expanding. Our catalogue shows our products as of October 2017. Check our website to stay up-to-date.

VP limit switches

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 13, 250 V) 0,3 A	U_i 500 V	[mm²] 0,75-1,5	5×10⁶	ON-OFF-ON... sc/h ×1.800	T_a -25...+55°C	IP 65
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Type of contact: Za

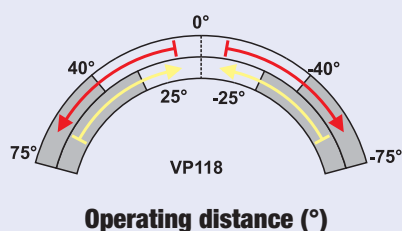
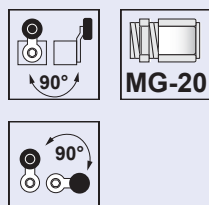


- double contacts
- strong plastic cover
- massive construction
- precise switching
- long lifetime
- easy wiring

RELEVANT STANDARD
EN 60947-5-1

RELEVANT STANDARD
EN 60947-1

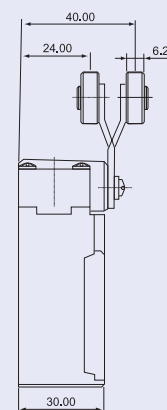
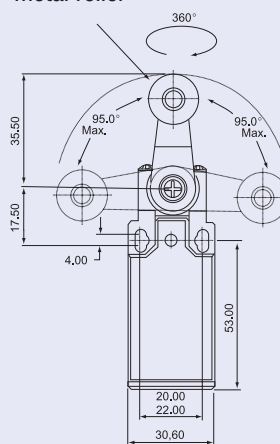
Version with twisting arm



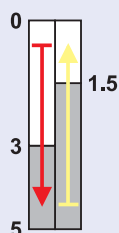
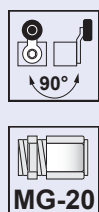
Operating distance (°)

TRACON VP118

d = 18 mm
metal roller



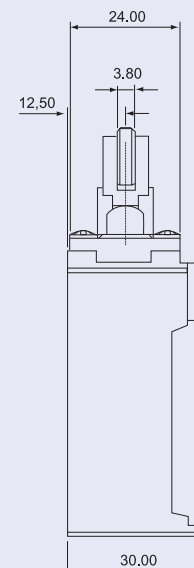
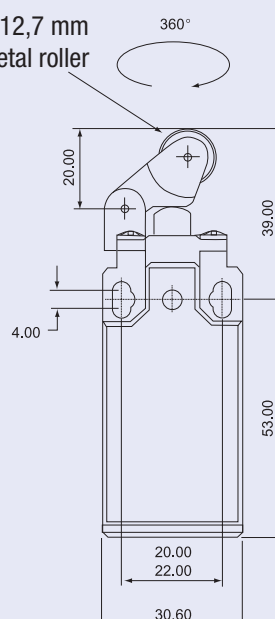
Version with twisting arm



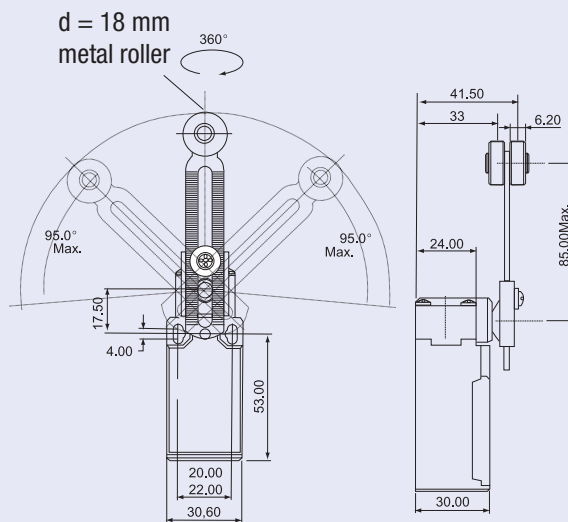
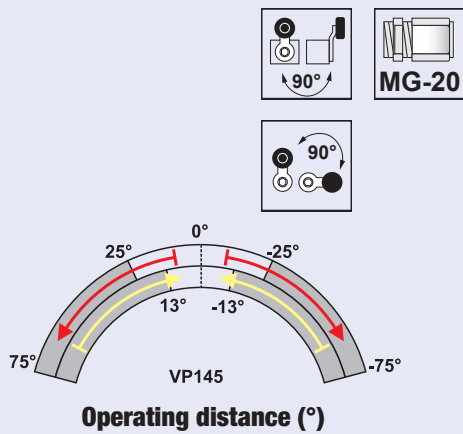
Operating distance (mm)

TRACON VP121

d = 12,7 mm
metal roller

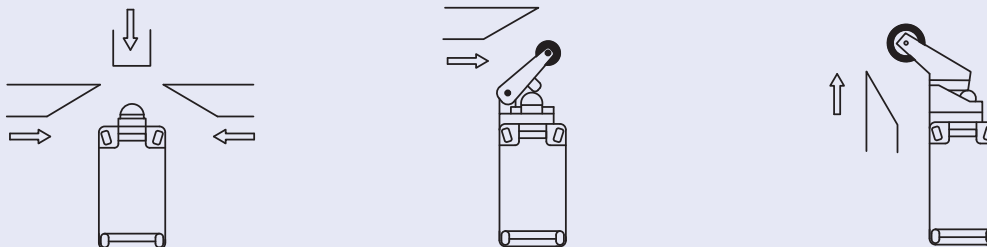


Version with adjustable rolling arm



TRACON VP145

Operation directions



THE PROPER TYPE FOR ALL APPLICATIONS

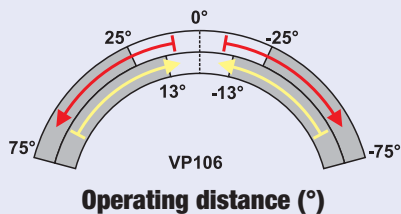
Plastic / metal

4-64 modules

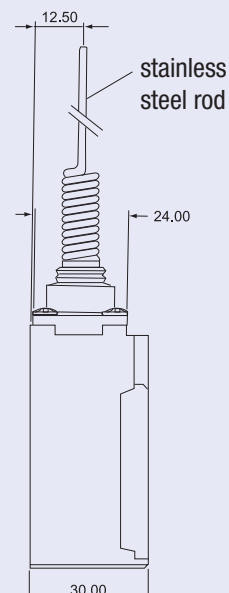
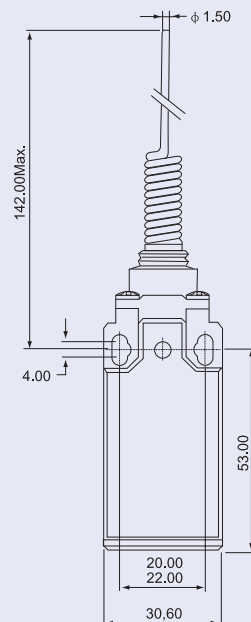
Wall and recessed mount types

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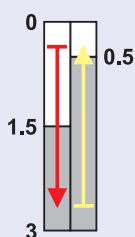
Version with spring stick



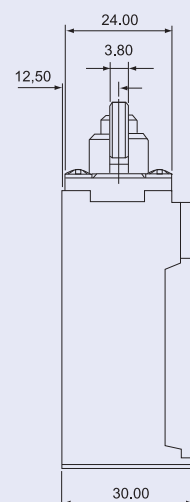
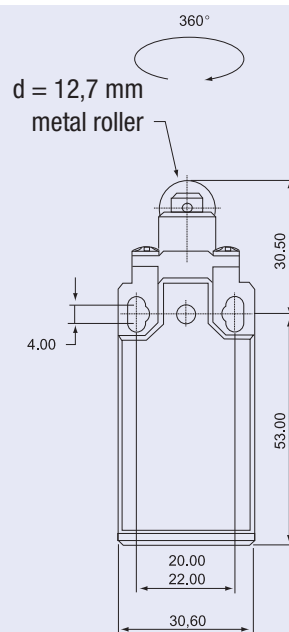
TRACON VP106



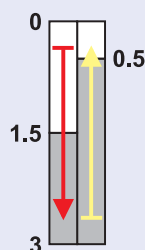
Version with roller bumper



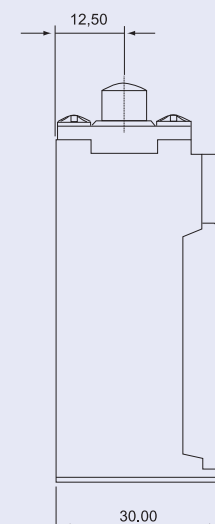
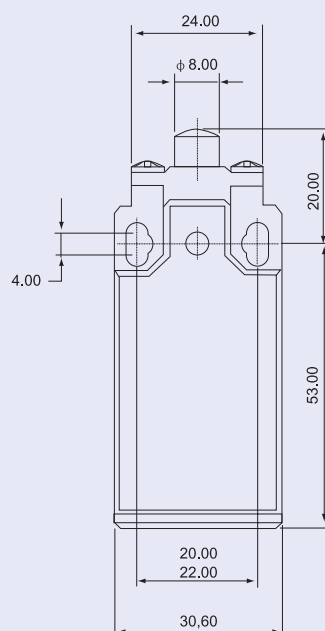
TRACON VP102



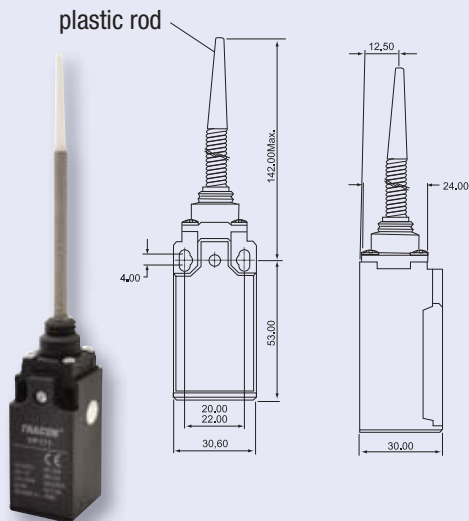
Version with cone bumper



TRACON VP110

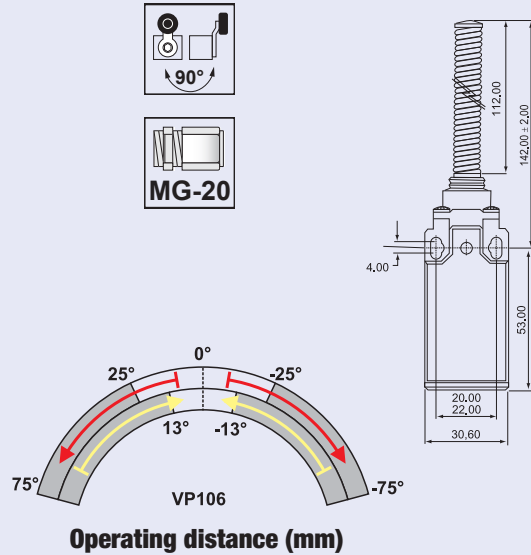


Version with twisting arm



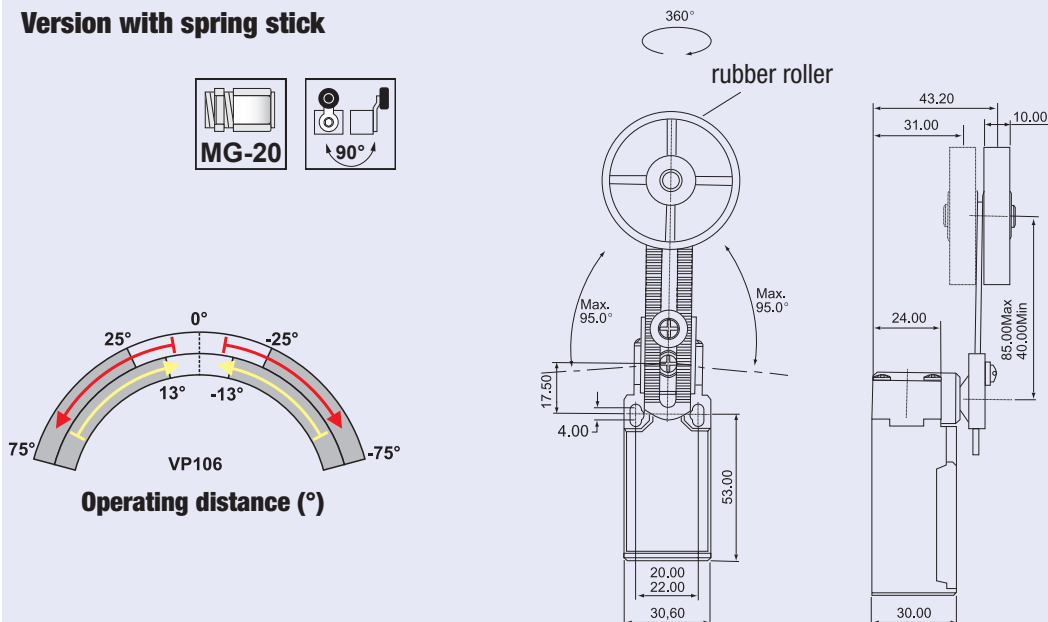
TRACON VP171

Version with roller bumper



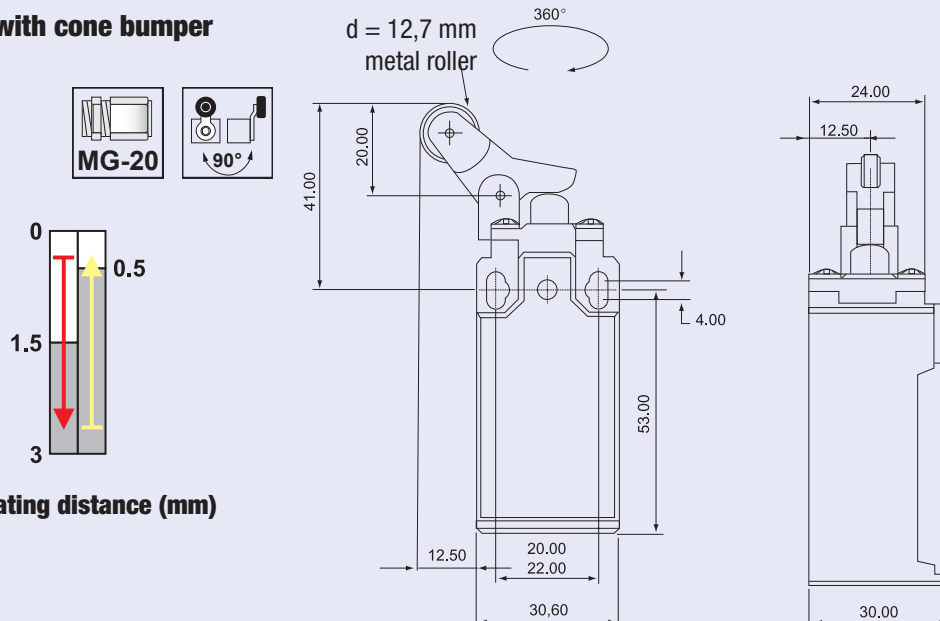
TRACON VP181

Version with spring stick



TRACON VP191

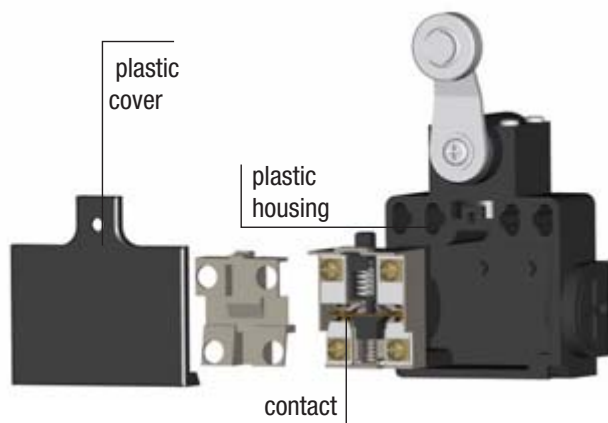
Version with cone bumper



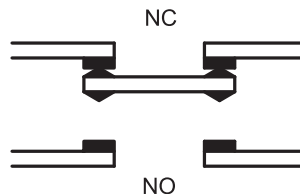
TRACON VP127

VT limit switches

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 13, 220 V) 0,3 A	U_i 500 V	[mm²] 0,75-1,5	×10⁷ x10 ⁷	ON-OFF-ON... sc/h x1.800	T_a -25...+55°C	IP 65
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Type of contact: **Za**

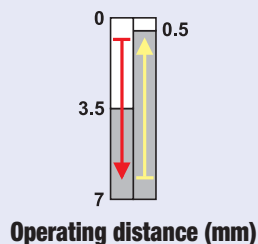
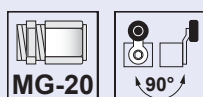


RELEVANT STANDARD
EN 60947-1

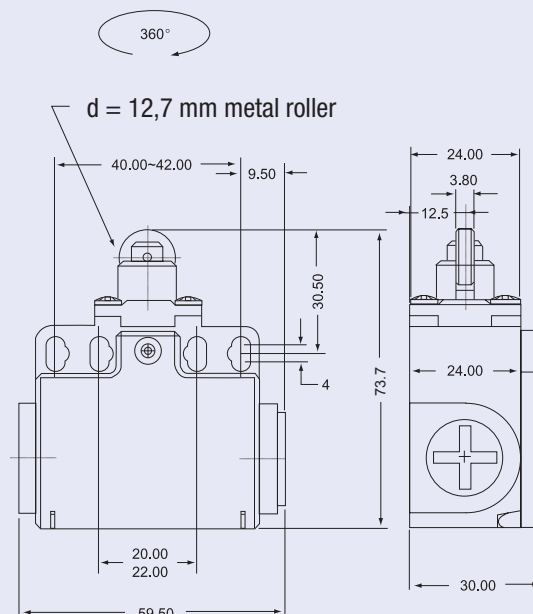
RELEVANT STANDARD
EN 60947-5-1

- double contacts
- strong plastic cover
- massive construction
- precise switching
- long lifetime

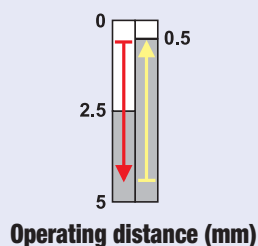
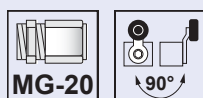
Version with roller bumper



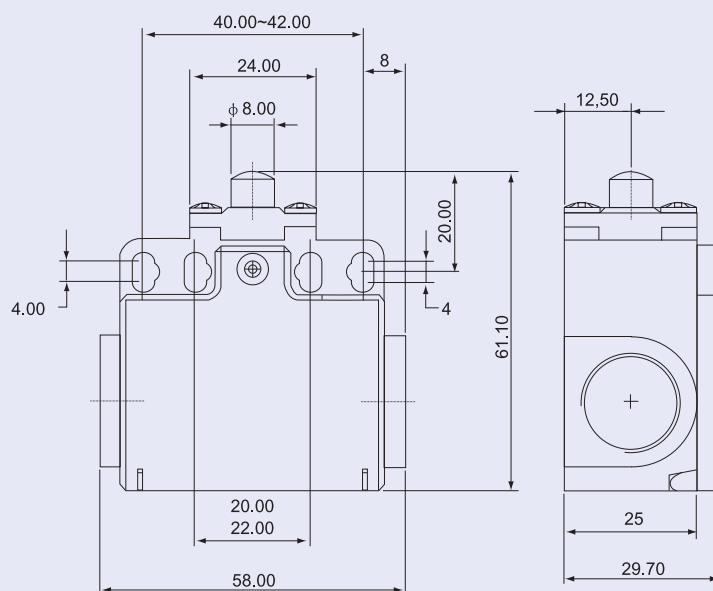
TRACON VT102



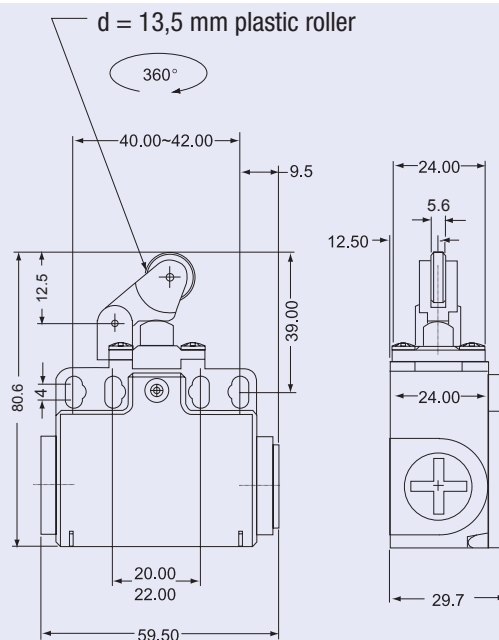
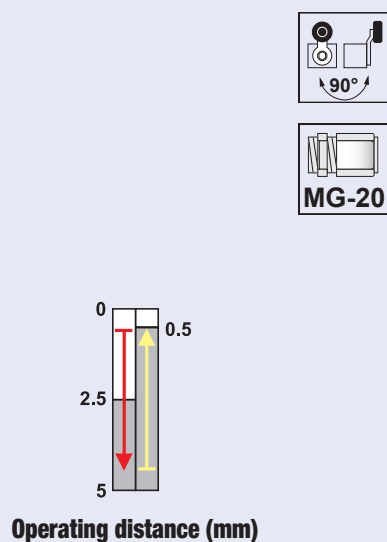
Version with cone bumper



TRACON VT110

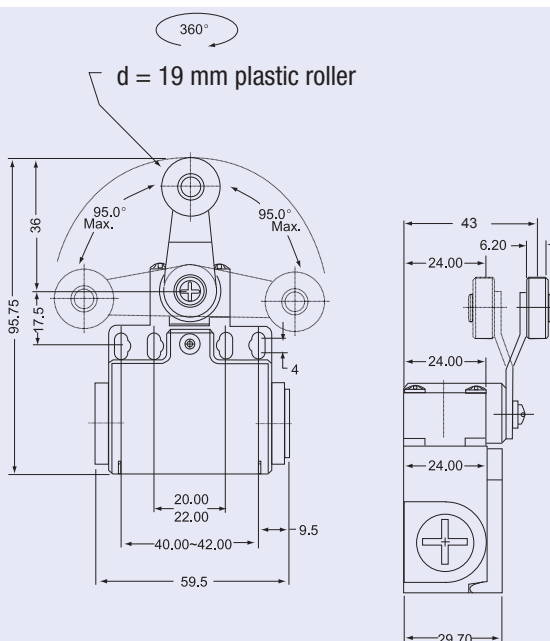
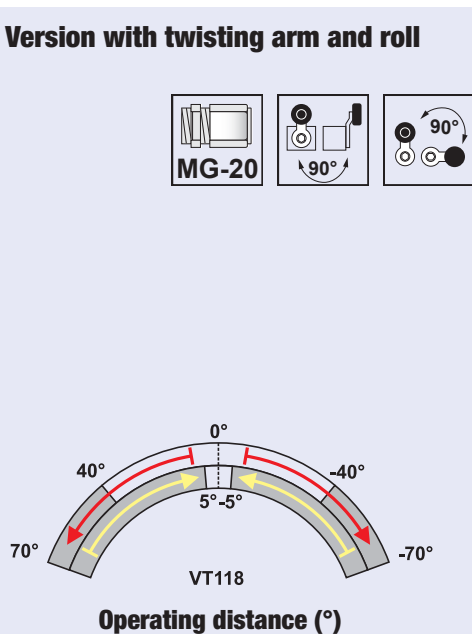


Version with cone bumper



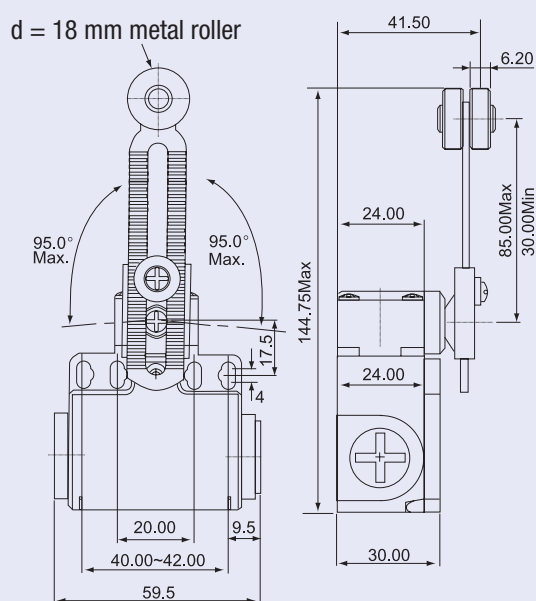
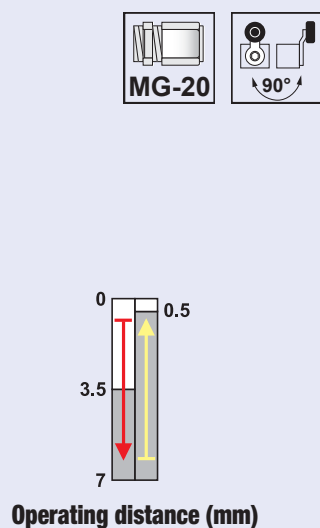
TRACON VT121

Version with twisting arm and roll



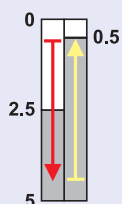
TRACON VT118

Version with roller bumper



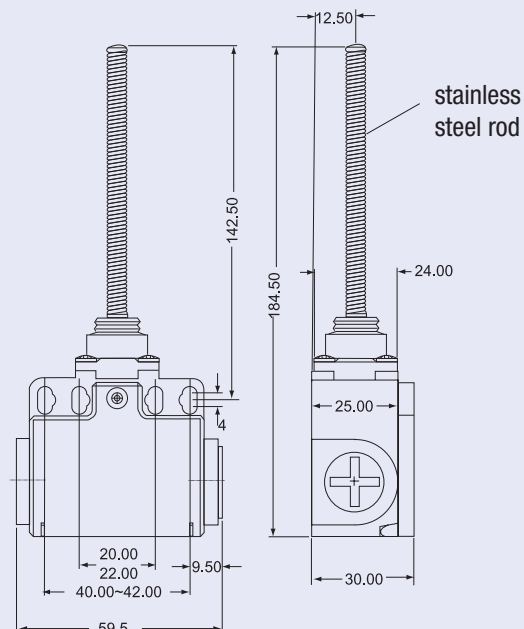
TRACON VT145

Version with cone bumper

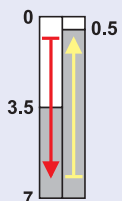


Operating distance (mm)

TRACON VT181

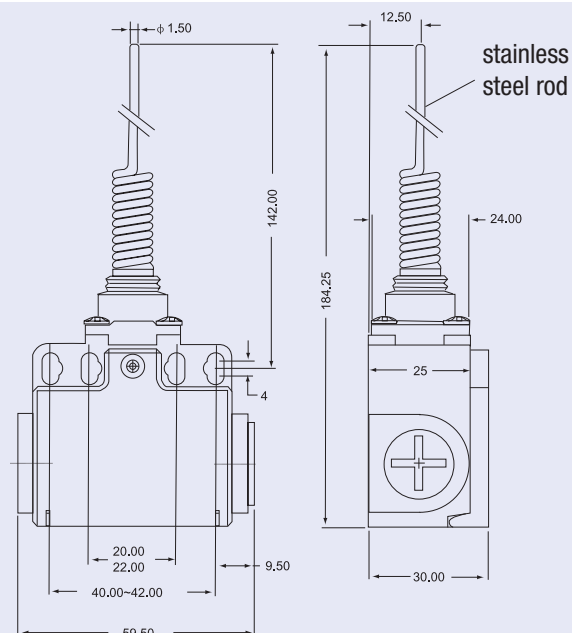


Version with roller bumper

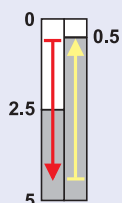


Operating distance (mm)

TRACON VT106

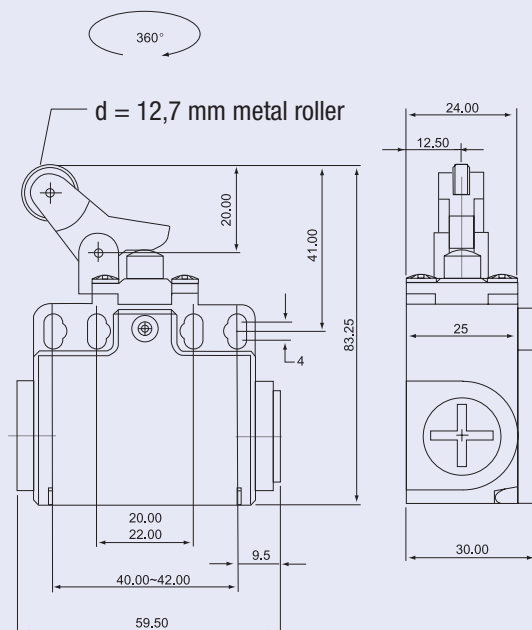


Version with cone bumper

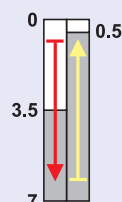
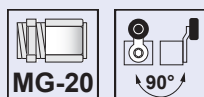


Operating distance (mm)

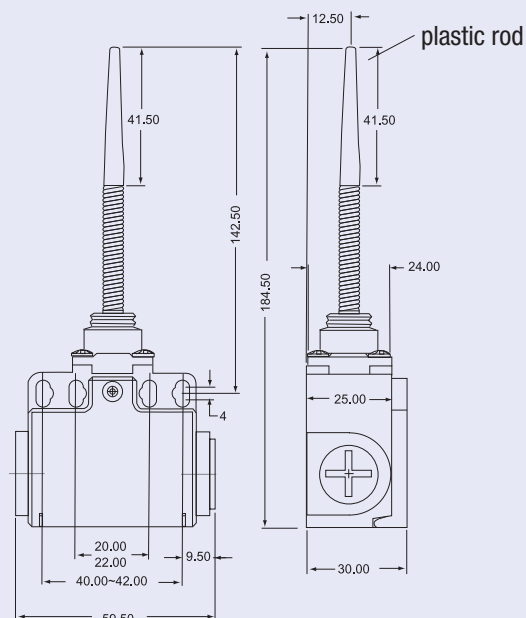
TRACON VT127



Version with roller bumper

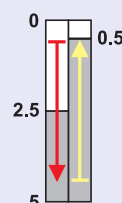
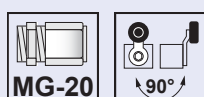


Operating distance (mm)

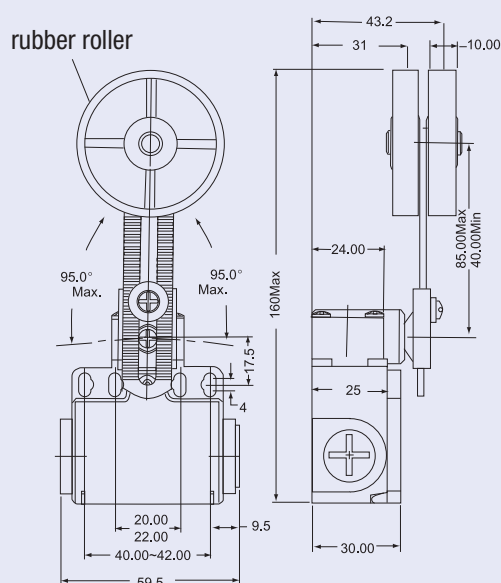


TRACON VT171

Version with cone bumper



Operating distance (mm)



TRACON VT191

LED PANELS

Wall and recessed mount types

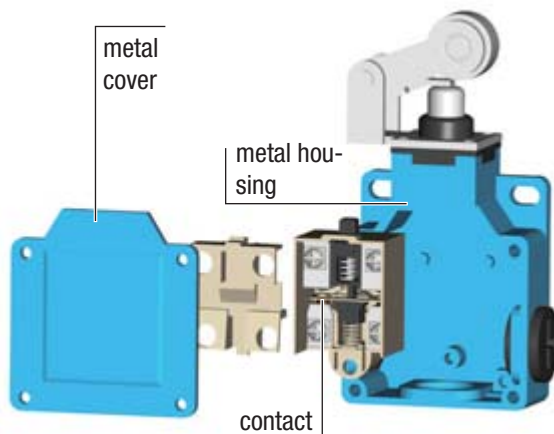
From 6 W to 48 W

For household and office use

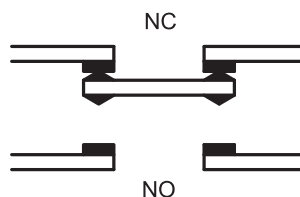
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VM limit switches

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 13, 250 V) 0,3 A	U_i 500 V	[mm²] 0,75-1,5	5×10⁶	ON-OFF-ON... sc/h ×3.600	T_a -25...+55°C	IP 66	
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Type of contact: Za



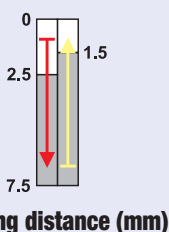
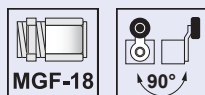
- double contacts
- strong metal cover
- massive construction
- water- and oilproof
- long lifetime
- easy wiring

RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

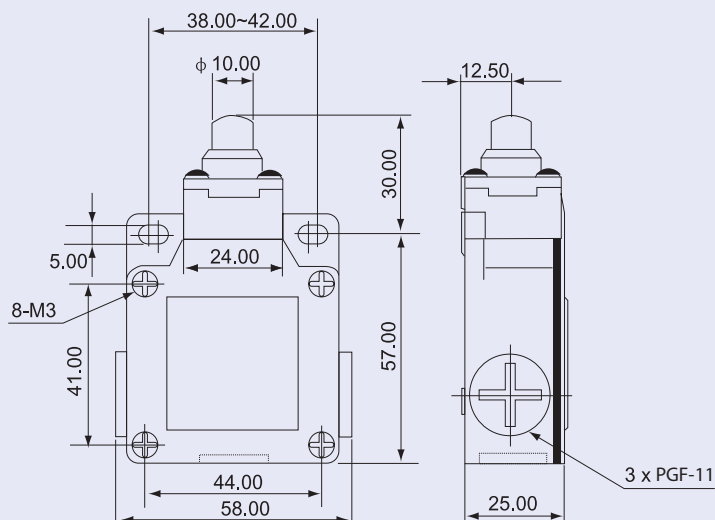
TÜV MEEI TEST DOCUMENTATION
D0525V123

Version with cone bumper

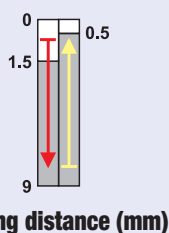
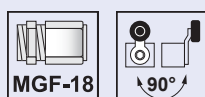


Operating distance (mm)

TRACON VM110

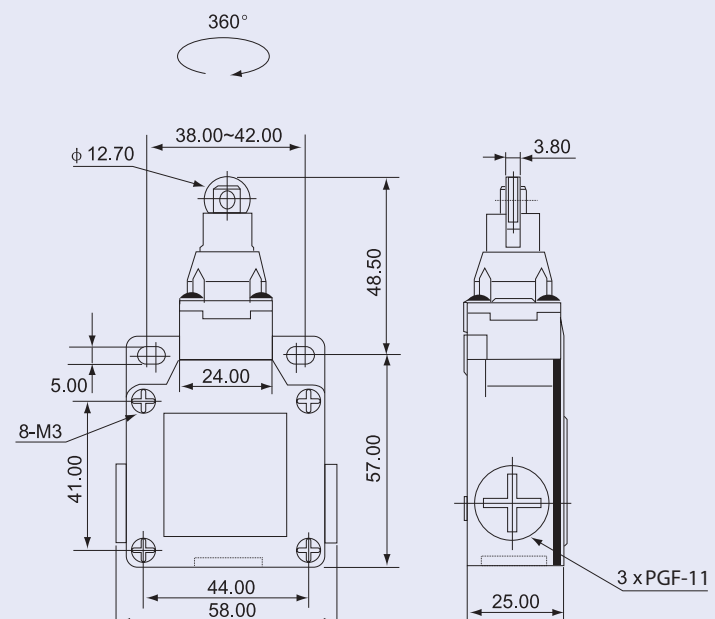


Version with roller bumper

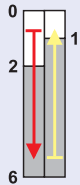
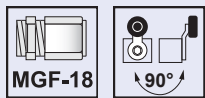


Operating distance (mm)

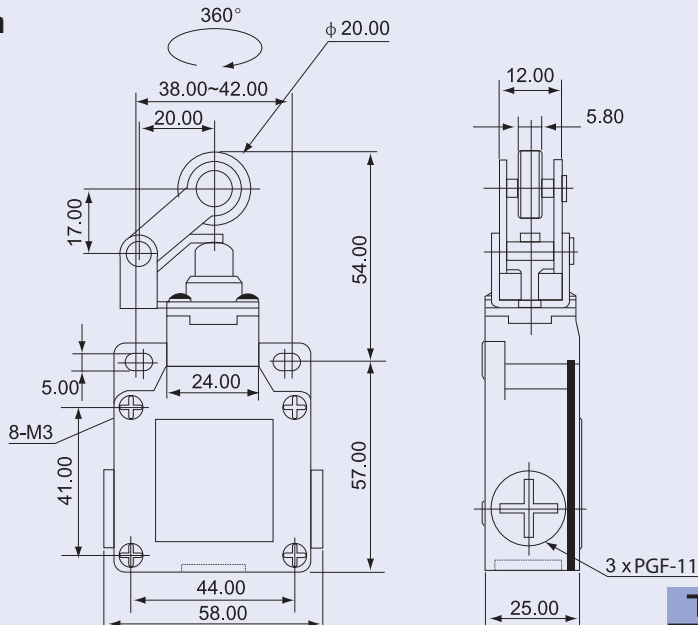
TRACON VM102



Version with roller bumper on arm

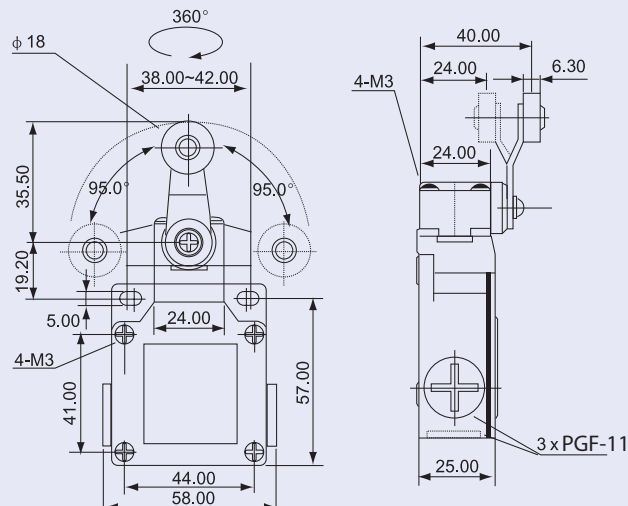
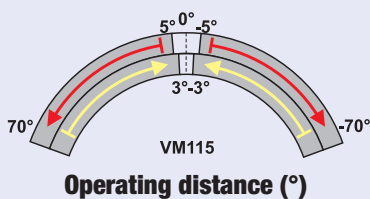
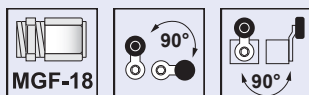


Operating distance (mm)



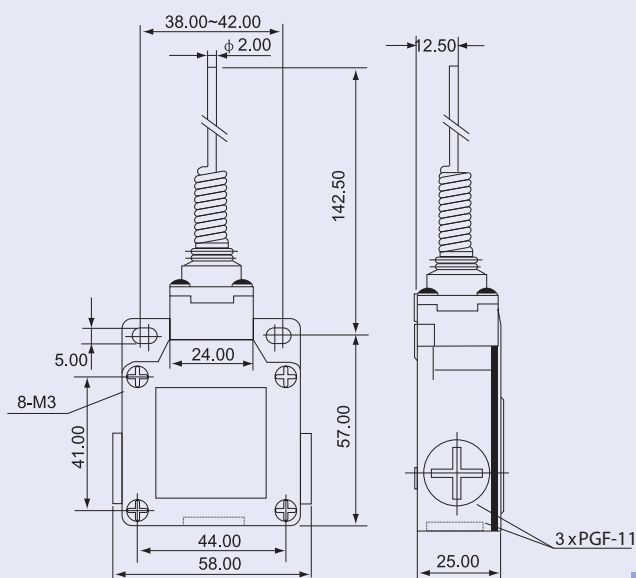
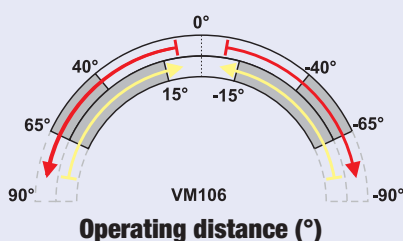
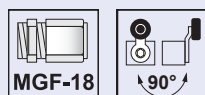
TRACON VM121

Version with twisting arm



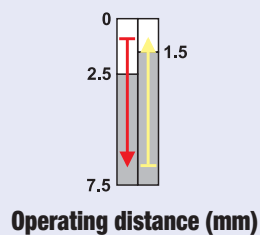
TRACON VM115

Version with spring stick

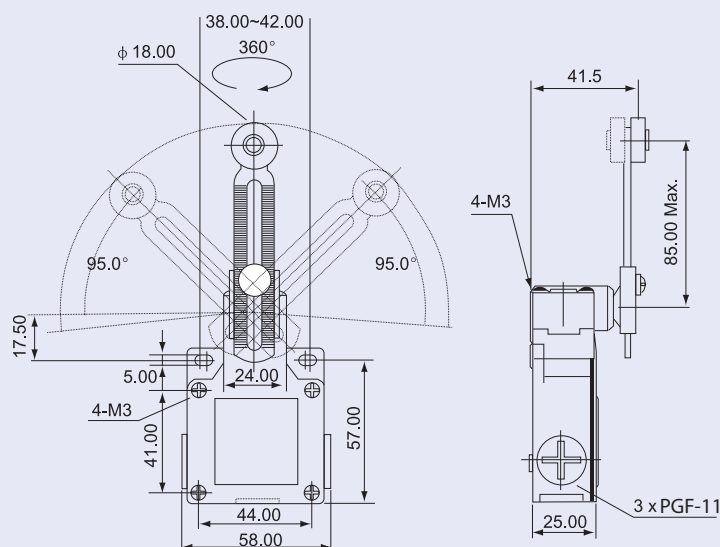


TRACON VM106

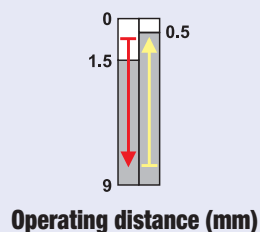
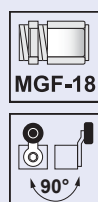
Version with cone bumper



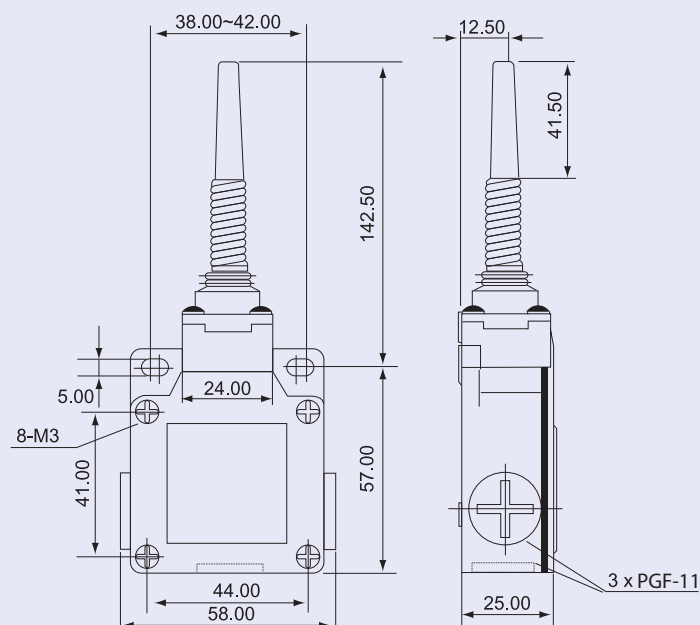
TRACON VM145



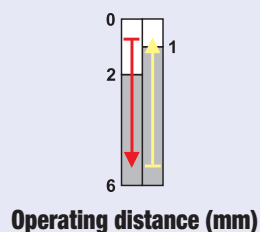
Version with roller bumper



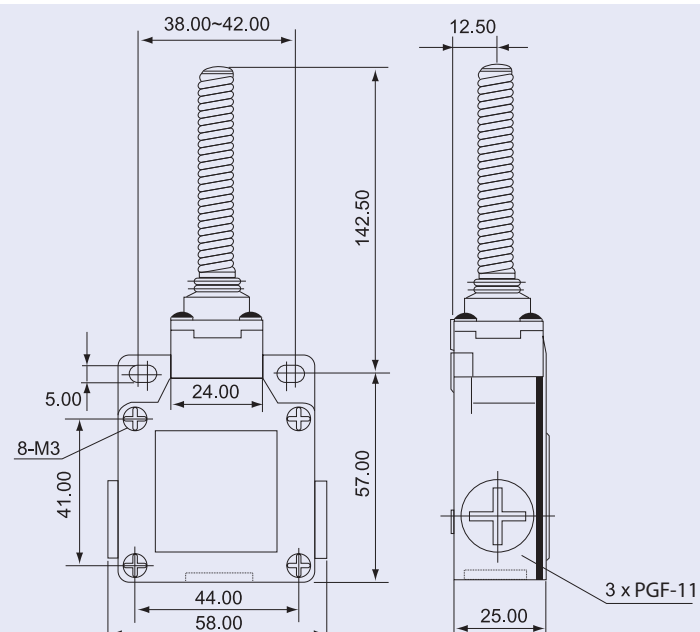
TRACON VM171



Version with roller bumper on arm



TRACON VM181

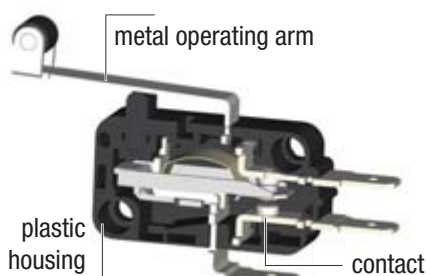


PORTABLE CONNECTION BOX

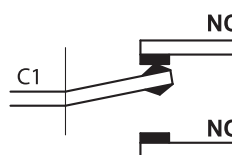
**G/24**

KW limit switches (micro switches)

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 13, 250 V) 0,3 A	U_i 500 V	[mm²] 0,75-1,5	×10⁶	ON-OFF-ON... sc/h ×600	T_a -25...+80°C	IP 00
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Type of contact: C



RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

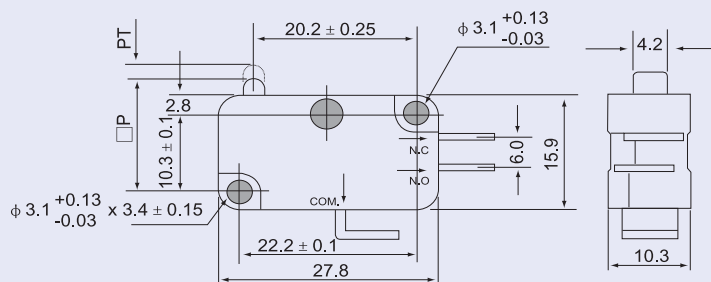
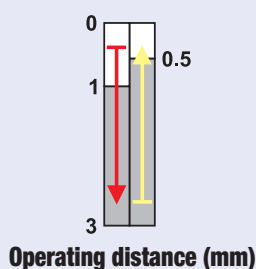
Version with bumper



TRACON

KW3-01 6,3×0,8 mm

KW3-05 4,8×0,8 mm



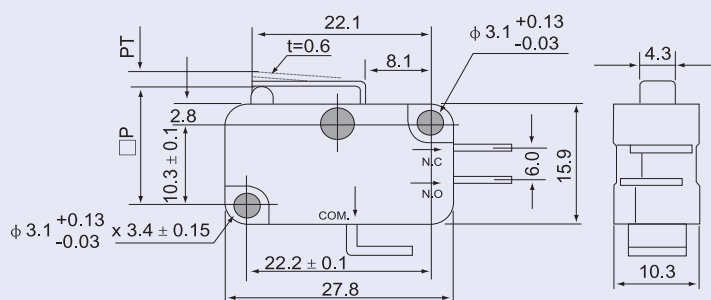
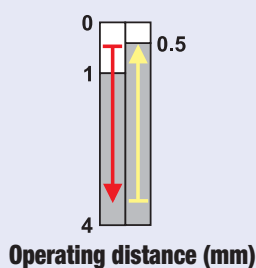
Version with spring handle



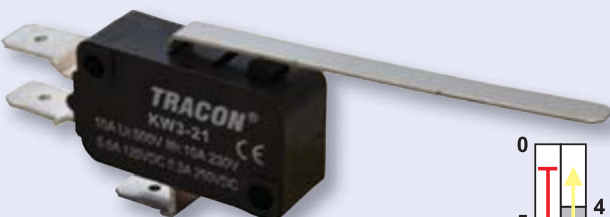
TRACON

KW3-11 6,3×0,8 mm

KW3-15 4,8×0,8 mm



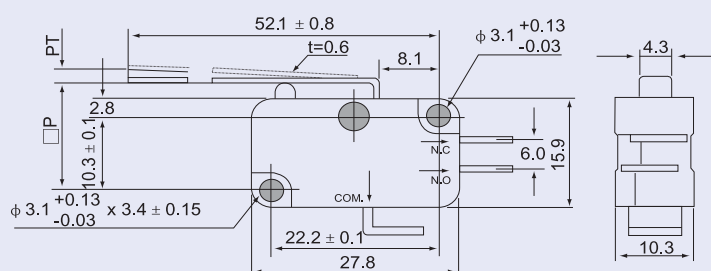
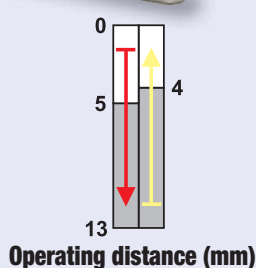
Version with spring handle



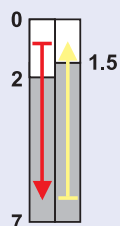
TRACON

KW3-21 6,3×0,8 mm

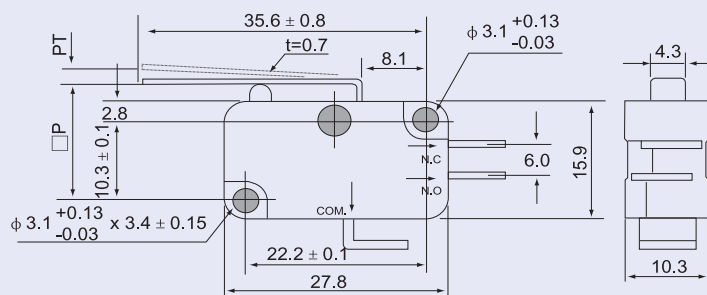
KW3-25 4,8×0,8 mm



Version with spring handle



Operating distance (mm)



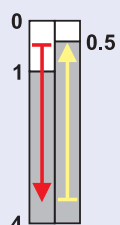
TRACON



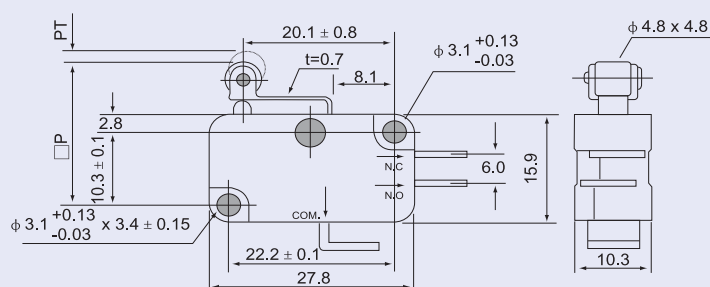
KW3-31 6,3×0,8 mm

KW3-35 4,8×0,8 mm

Version with spring handle and roll



Operating distance (mm)



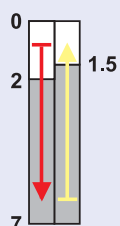
TRACON



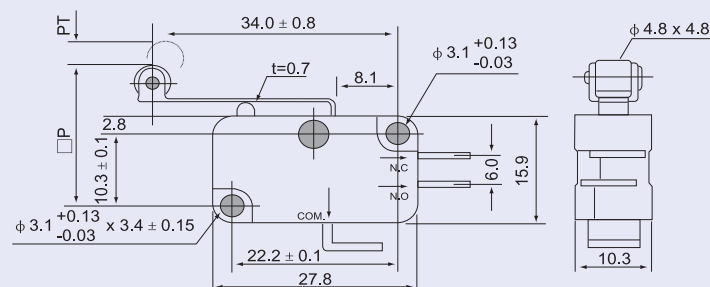
KW3-41 6,3×0,8 mm

KW3-45 4,8×0,8 mm

Version with spring handle and roll



Operating distance (mm)



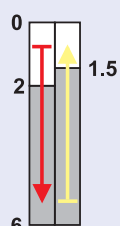
TRACON



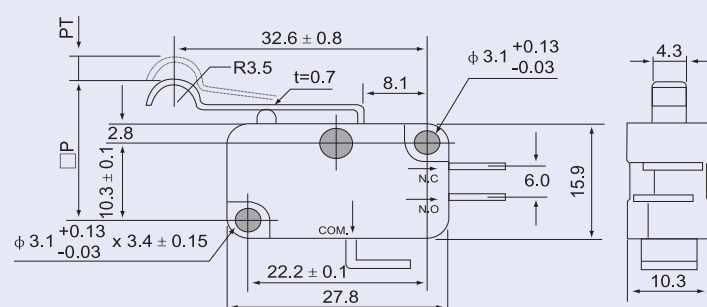
KW3-51 6,3×0,8 mm

KW3-55 4,8×0,8 mm

Version with spring handle



Operating distance (mm)



TRACON

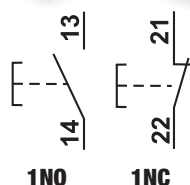


KW3-61 6,3×0,8 mm

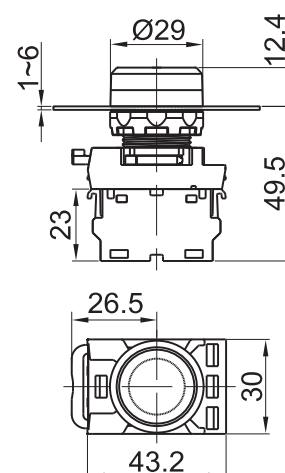
KW3-65 4,8×0,8 mm

Pushbuttons, basic

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$ max. 20 N	F_{on} max. 20 N	T_a -25...+40°C	22 mm
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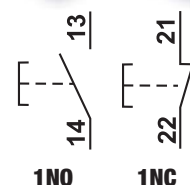


TRACON			
IP 65		IP65	
NYG3-BK		page K/32	1 × NO
NYG3-G			1 × NO
NYG3-W			1 × NO
NYG3-Y			1 × NO
NYG3-B			1 × NO
NYG3-R			1 × NC
RELEVANT STANDARD EN 60947-1		RELEVANT STANDARD EN 60947-5-1	

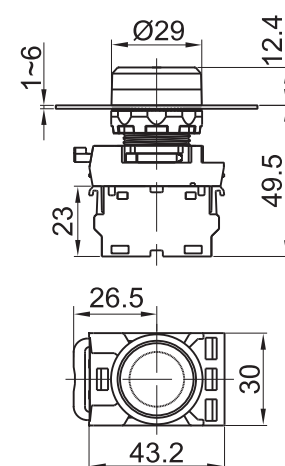


Push-switches, basic

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$ max. 20 N	F_{on} max. 15 N	F_{off} max. 15 N	T_a -25...+40°C	22 mm
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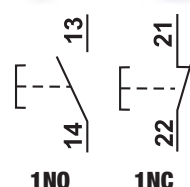


TRACON			
IP 65		IP65	
NYK3-BK		page K/32	1 × NO
NYK3-G			1 × NO
NYK3-W			1 × NO
NYK3-Y			1 × NO
NYK3-B			1 × NO
NYK3-R			1 × NC
RELEVANT STANDARD EN 60947-1		RELEVANT STANDARD EN 60947-5-1	

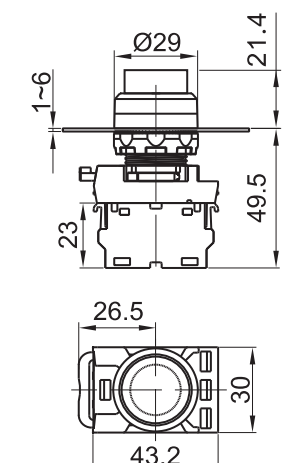


Pushbuttons, protruding

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$ max. 20 N	F_{on} max. 20 N	T_a -25...+40°C	22 mm
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TRACON			
IP 65		IP65	
NYG3-HBK		page K/32	1 × NO
NYG3-HG			1 × NO
NYG3-HW			1 × NO
NYG3-HY			1 × NO
NYG3-HB			1 × NO
NYG3-HR			1 × NC
RELEVANT STANDARD EN 60947-1		RELEVANT STANDARD EN 60947-5-1	

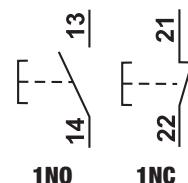
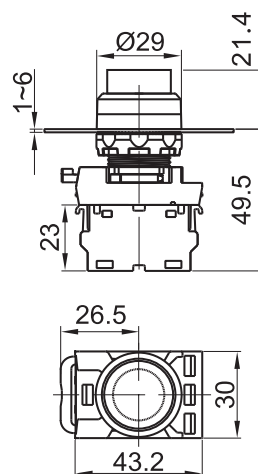


Push-switches, protruding

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$	F_{on} max. 20 N	F_{off} max. 15 N	T_a -25...+40°C	22 mm
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TRACON			IP 42		IP65		NC NO CO	
NYK3-HBK							1 × NO	
NYK3-HG							1 × NO	
NYK3-HW							1 × NO	
NYK3-HY							1 × NO	
NYK3-HB							1 × NO	
NYK3-HR							1 × NC	
RELEVANT STANDARD EN 60947-1			RELEVANT STANDARD EN 60947-5-1					

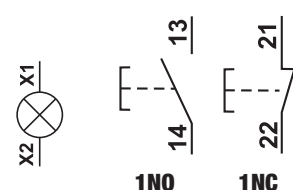
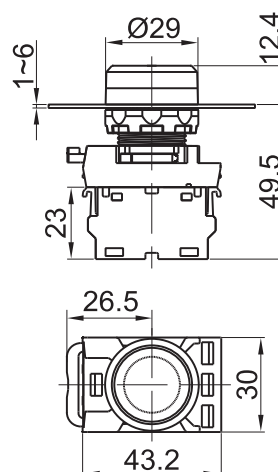


Pushbuttons with light

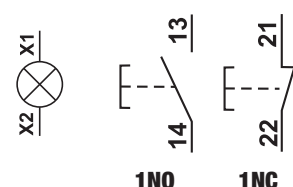
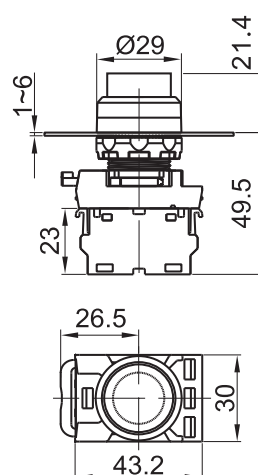
I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$	F_{on} max. 20 N	T_a -25...+40°C	22 mm
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TRACON			IP 65		IP65		NC NO CO	
NYG3-LG							1 × NO	
NYG3-LW							1 × NO	
NYG3-LY							1 × NO	
NYG3-LB							1 × NO	
NYG3-LR							1 × NC	
NYG3-HLG*							1 × NO	
NYG3-HLW*							1 × NO	
NYG3-HLY*							1 × NO	
NYG3-HLB*							1 × NO	
NYG3-HLR*							1 × NC	
RELEVANT STANDARD EN 60947-1			RELEVANT STANDARD EN 60947-5-1					



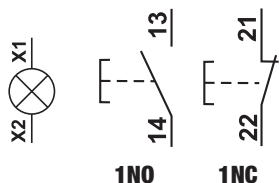
* Protruding versions



Push-switches with light



NYK3-L..



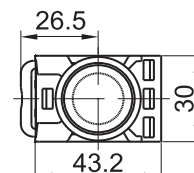
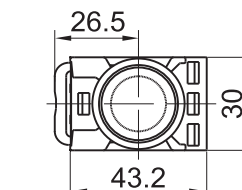
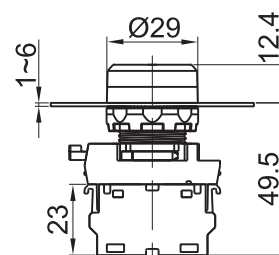
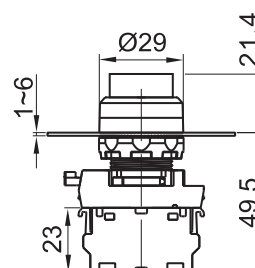
NYK3-H..

TRACON			IP 65		IP65		NC NO CO	
IP 65								
IP 42*								
NYK3-LG							1 × NO	
NYK3-LW							1 × NO	
NYK3-LY							1 × NO	
NYK3-LB							1 × NO	
NYK3-LR							1 × NC	
NYK3-HLG*							1 × NO	
NYK3-HLW*							1 × NO	
NYK3-HLY*							1 × NO	
NYK3-HLB*							1 × NO	
NYK3-HLR*							1 × NC	

* Protruding versions

RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1



Pushbuttons with signal



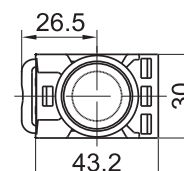
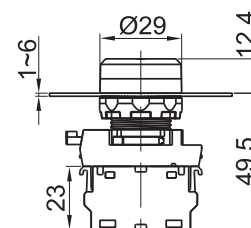
NYG3-P..



NYG3-P..L



TRACON			IP 65		IP65		NC NO CO	
IP 65								
NYG3-P1							1 × NO	
NYG3-P4							1 × NO	
NYG3-P3							1 × NO	
NYG3-P2							1 × NC	
NYG3-P1L							1 × NO	
NYG3-P4L							1 × NO	
NYG3-P3L							1 × NO	
NYG3-P2L							1 × NC	



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Push-switches with signal

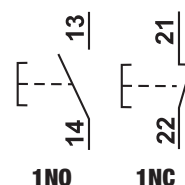
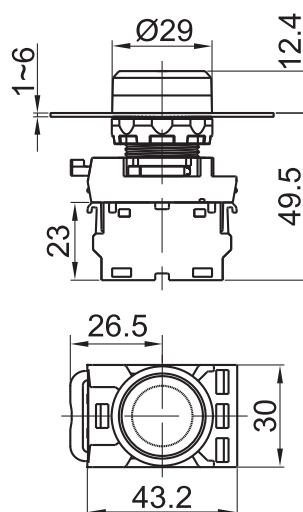


TRACON			IP 65		IP65		NC NO CO	
NYK3-P1	I						1 × NO	
NYK3-P4	→						1 × NO	
NYK3-P3	→						1 × NO	
NYK3-P2	0						1 × NC	
NYK3-P1L	I						1 × NO	
NYK3-P4L	→						1 × NO	
NYK3-P3L	→						1 × NO	
NYK3-P2L	0						1 × NC	

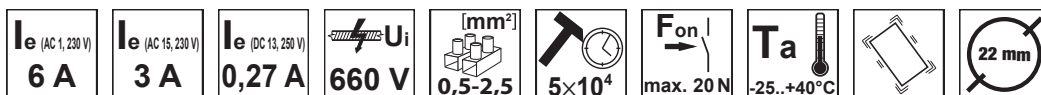
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RELEVANT STANDARD EN 60947-1

RELEVANT STANDARD EN 60947-5-1



Pushbuttons with mushroom head

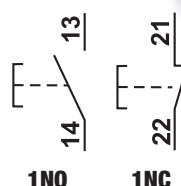
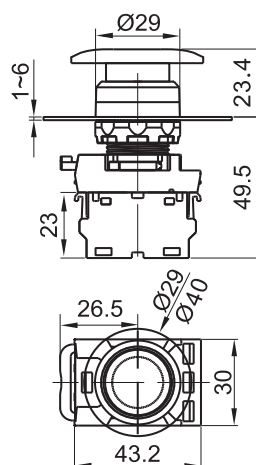


TRACON			IP 65		IP65		NC NO CO	
NYG3-MBK							1 × NO	
NYG3-MG							1 × NO	
NYG3-MY							1 × NO	
NYG3-MB							1 × NO	
NYG3-MR							1 × NC	
NYG3-MLG							1 × NO	
NYG3-MLY							1 × NO	
NYG3-MLB							1 × NO	
NYG3-MLR							1 × NC	

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RELEVANT STANDARD EN 60947-1

RELEVANT STANDARD EN 60947-5-1



Emergency pushbutton, twist release

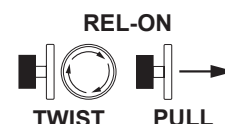
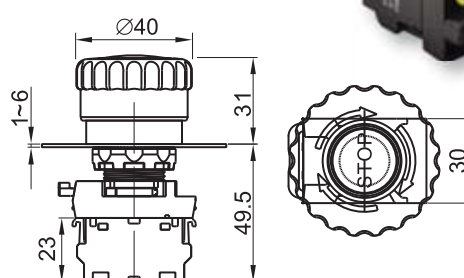


TRACON			IP 65		IP65		NC NO CO	
NYG3-ETR							1 × NC	
NYG3-ETLR	STOP						1 × NC	

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RELEVANT STANDARD EN 60947-1

RELEVANT STANDARD EN 60947-5-1

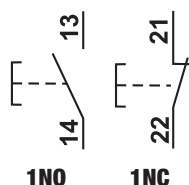
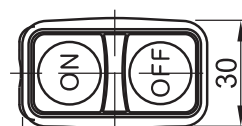
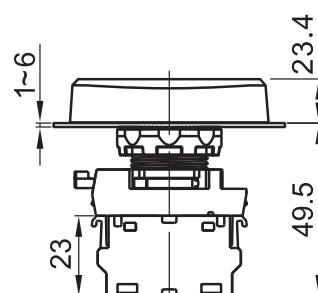


Double ON-OFF switches

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	mm² 0,5-2,5	×10⁶	F_{on} I max. 20 N	T_a -25...+40°C	22 mm	Pictograms	K/0
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TRACON				page K/32	1×NO+1×NC 1×NO+1×NC 1×NO+1×NC 1×NO+1×NC 1×NO+1×NC 1×NO+1×NC
IP 65					
NYG3-D					
NYG3-D1	I	O			
NYG3-D2	ON	OFF			
NYG3-DL					
NYG3-DL1	I	O			
NYG3-DL2	ON	OFF			



RELEVANT STANDARD
EN 60947-1

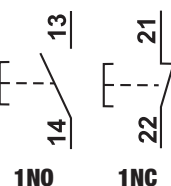
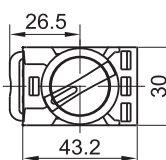
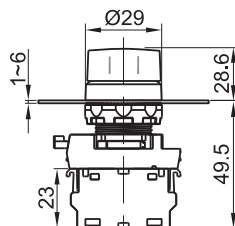
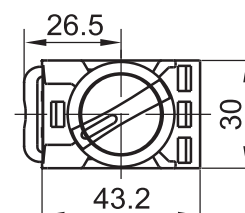
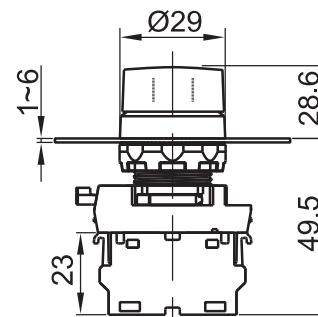
RELEVANT STANDARD
EN 60947-5-1

Knob switches

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	mm² 0,5-2,5	30×10⁴	T_a -25...+40°C	22 mm
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TRACON				page K/32	1×NO+1×NC 2×NO 1×NO+1×NC 2×NO 2×NO 2×NO
IP 65					
Normal	NYK3-S21BK	1 2			
	NYK3-S31BK	1 2			
	NYK3-S24BK	1 2			
With spring return	NYK3-S32BK	1 2			
	NYK3-S33BK	1 2			
	NYK3-S34BK	1 2			

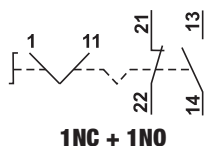


Two position normal

Three position normal

Two position with spring return

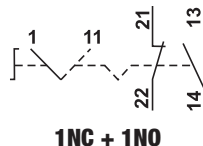
Three position with spring return



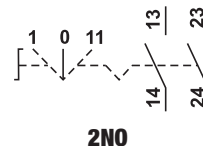
1NC + 1NO



2NO



1NC + 1NO



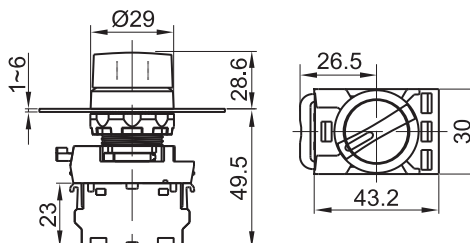
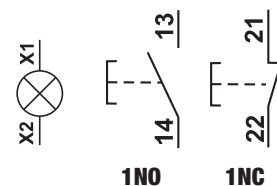
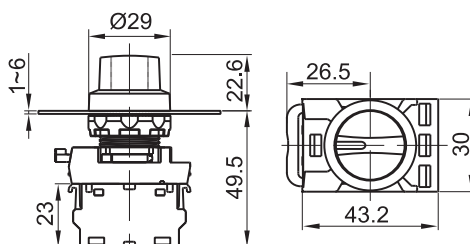
2NO

Knob handle switches with light

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	30×10⁴	T_a -25...+40°C	22 mm
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TRACON			IP 65		IP65		NC NO CO	
NYK3-SL21R								
NYK3-SL21G								
NYK3-SL21Y								
NYK3-SL21B								
NYK3-SL24R								
NYK3-SL24G								
NYK3-SL24Y								
NYK3-SL24B								
NYK3-SL31R								
NYK3-SL31G								
NYK3-SL31Y								
NYK3-SL31B								
NYK3-SL34R								
NYK3-SL34G								
NYK3-SL34Y								
NYK3-SL34B								

page
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Key switches

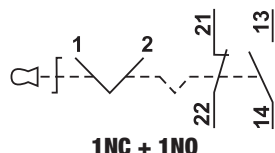
I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	5×10⁴	T_a -25...+40°C	22 mm
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	Pictograms	K/0
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TRACON			IP 42		IP65		NC NO CO	
Normal	NYK3-K21							
	NYK3-K31							
With spring return	NYK3-K24							
	NYK3-K34							

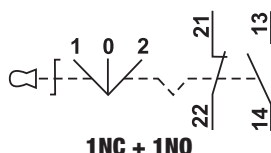
page
K/32

Two position normal



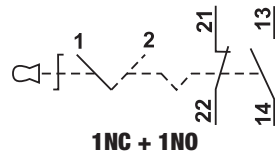
1NC + 1NO

Three position normal



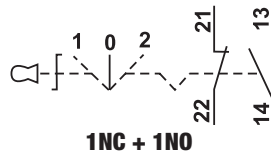
1NC + 1NO

Two position with spring return

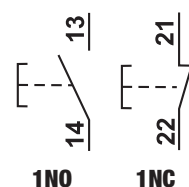
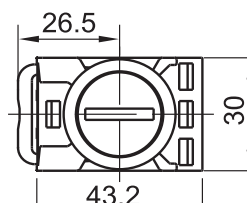
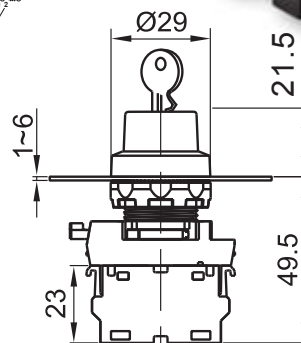


1NC + 1NO

Three position with spring return

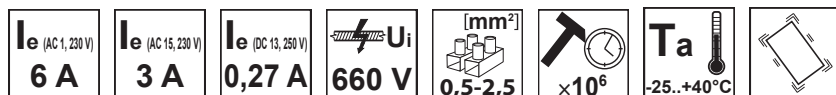


1NC + 1NO



1NO 1NC

Contact units

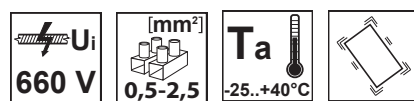


TRACON		
		NC NO CO
NYG3-CE1		1 × NO
NYG3-CE2		1 × NC

NC

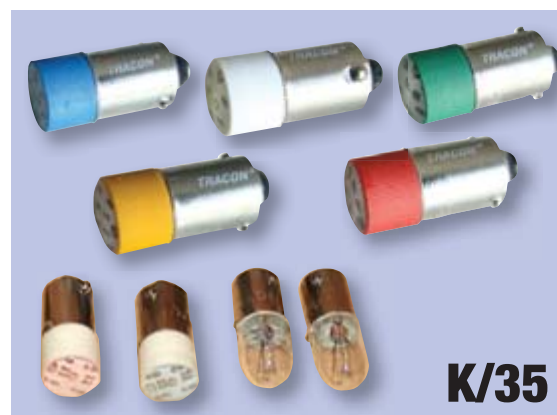
NO

Lighting unit



TRACON		
IP 42		
NYG3-SOC		Ba9s

X1 X2



K/35

Protection covers



TRACON		
NYGD-1GR		
NYGD-1YE		
NYGD-2GR		
NYGD-2YE		
NYGD-3GR		
NYGD-3YE		

TRACON		
NYGD-4GR		
NYGD-4YE		
NYGD-5GR		
NYGD-5YE		
NYGD-6GR		
NYGD-6YE		



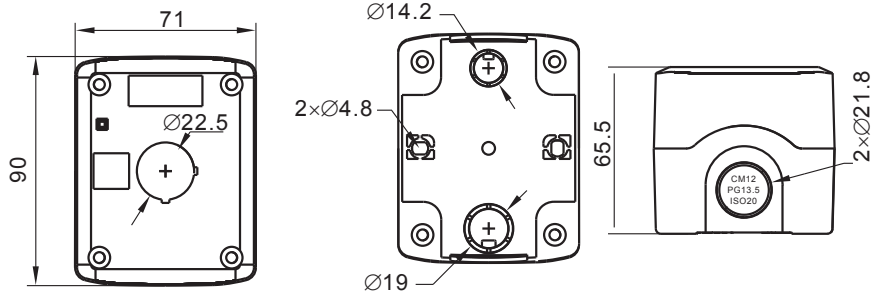
NYGD-1GR



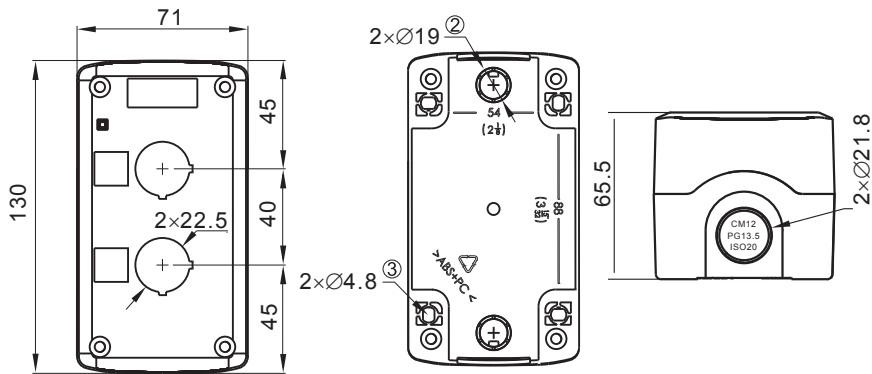
NYGD-2YE



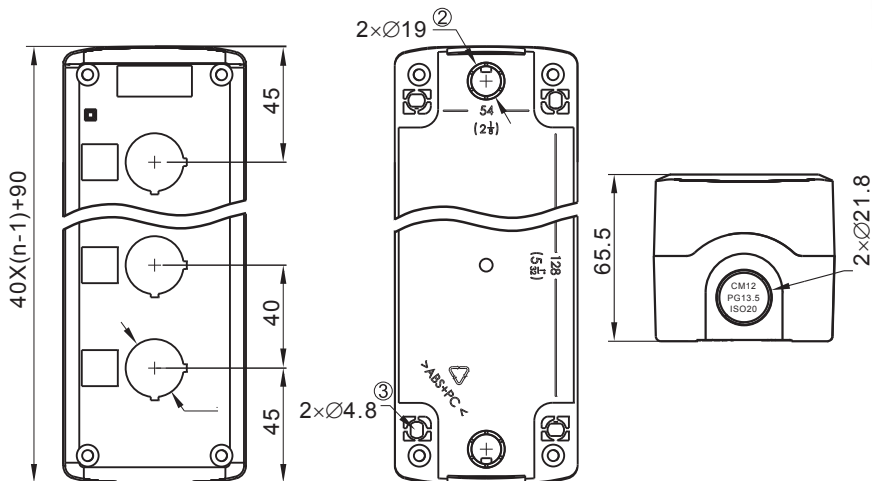
NYGD-3GR



NYGD-4YE



NYGD-5GR



NYGD-6YE



LJL type LED signal lamps



Pictograms

K/0

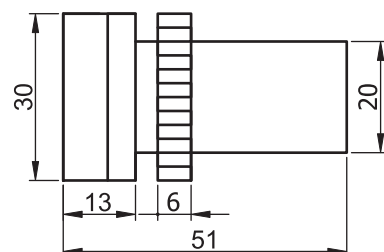
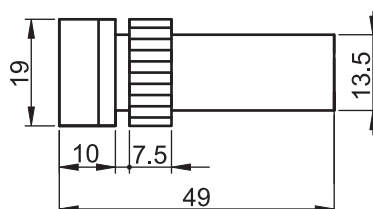
Ø 16 mm versions

TRACON		Um
LJL16-RA		12 V AC/DC
LJL16-RC		24 V AC/DC
LJL16-RD		48 V AC/DC
LJL16-RE		230 V AC
LJL16-RF		400 V AC
LJL16-GA		12 V AC/DC
LJL16-GC		24 V AC/DC
LJL16-GD		48 V AC/DC
LJL16-GE		230 V AC
LJL16-GF		400 V AC
LJL16-YA		12 V AC/DC
LJL16-YC		24 V AC/DC
LJL16-YD		48 V AC/DC
LJL16-YE		230 V AC
LJL16-YF		400 V AC
LJL16-WA		12 V AC/DC
LJL16-WC		24 V AC/DC
LJL16-WD		48 V AC/DC
LJL16-WE		230 V AC
LJL16-WF		400 V AC
LJL16-BA		12 V AC/DC
LJL16-BC		24 V AC/DC
LJL16-BD		48 V AC/DC
LJL16-BE		230 V AC
LJL16-BF		400 V AC

Ø 22 mm versions

TRACON			Um	
IP 65				
LJL22-RA	LJL22-RAT		12 V AC/DC	
LJL22-RC	LJL22-RCT		24 V AC/DC	
LJL22-RD	LJL22-RDT		48 V AC/DC	
LJL22-RE	LJL22-RET		230 V AC	
LJL22-RF	LJL22-RFT		400 V AC	
LJL22-GA	LJL22-GAT		12 V AC/DC	
LJL22-GC	LJL22-GCT		24 V AC/DC	
LJL22-GD	LJL22-GDT		48 V AC/DC	
LJL22-GE	LJL22-GET		230 V AC	
LJL22-GF	LJL22-GFT		400 V AC	
LJL22-YA	LJL22-YAT		12 V AC/DC	
LJL22-YC	LJL22-YCT		24 V AC/DC	
LJL22-YD	LJL22-YDT		48 V AC/DC	
LJL22-YE	LJL22-YET		230 V AC	
LJL22-YF	LJL22-YFT		400 V AC	
LJL22-WA	LJL22-WAT		12 V AC/DC	
LJL22-WC	LJL22-WCT		24 V AC/DC	
LJL22-WD	LJL22-WDT		48 V AC/DC	
LJL22-WE	LJL22-WET		230 V AC	
LJL22-WF	LJL22-WFT		400 V AC	
LJL22-BA	LJL22-BAT		12 V AC/DC	
LJL22-BC	LJL22-BCT		24 V AC/DC	
LJL22-BD	LJL22-BDT		48 V AC/DC	
LJL22-BE	LJL22-BET		230 V AC	
LJL22-BF	LJL22-BFT		400 V AC	

TK/T1+F2/



Normal signal bulbs



TRACON	U _m		
NYGI6	6 V AC/DC	1,2 W	Ba9s
NYGI12	12 V AC/DC	2 W	Ba9s
NYGI24	24 V AC/DC	2 W	Ba9s
NYGI48	48 V AC/DC	2 W	Ba9s
NYGI130	130 V AC/DC	2,6 W	Ba9s
NYGI230	230 V AC	glimm	Ba9s

LED signal bulbs



TRACON	U _m		
NYGLS	110-230 V		Ba9s
NYGLP	110-230 V		Ba9s
NYGLK	110-230 V		Ba9s
NYGLF	110-230 V		Ba9s
NYGLZ	110-230 V		Ba9s

LED signal bulbs (new version)



TRACON	U _m		
NYGL-AC400B	400 V AC		Ba9s
NYGL-AC400G	400 V AC		Ba9s
NYGL-AC400R	400 V AC		Ba9s
NYGL-AC400W	400 V AC		Ba9s
NYGL-AC400Y	400 V AC		Ba9s
NYGL-ACDC230B	230 V AC/DC		Ba9s
NYGL-ACDC230G	230 V AC/DC		Ba9s
NYGL-ACDC230R	230 V AC/DC		Ba9s
NYGL-ACDC230W	230 V AC/DC		Ba9s
NYGL-ACDC230Y	230 V AC/DC		Ba9s
NYGL-ACDC24B	24 V AC/DC		Ba9s
NYGL-ACDC24G	24 V AC/DC		Ba9s
NYGL-ACDC24R	24 V AC/DC		Ba9s
NYGL-ACDC24W	24 V AC/DC		Ba9s
NYGL-ACDC24Y	24 V AC/DC		Ba9s



TRACON APPLICATION

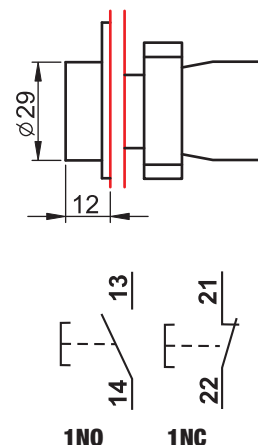


Simple pushbuttons

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$	F_{on} max. 20 N	T_a -25...+70°C	22 mm
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TRACON					
IP 42		+	IP44	IP44	NC NO
NYGBA21	NYGBA21T				1 × NO
NYGBA31Z	NYGBA31ZT				1 × NO
NYGBA51S	NYGBA51ST			TK/T1+F2/	1 × NO
NYGBA61K	NYGBA61KT				1 × NO
NYGBA42P	NYGBA42PT				1 × NC
RELEVANT STANDARD EN 60947-1				RELEVANT STANDARD EN 60947-5-1	

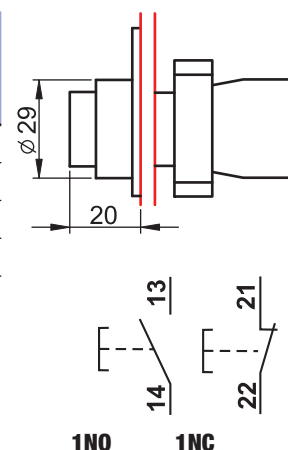


Projecting pushbuttons

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$	F_{on} max. 20 N	T_a -25...+70°C	22 mm
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TRACON					
IP 42		+	IP44	IP44	NC NO
NYGBL21	NYGBL21T				1 × NO
NYGBL31Z	NYGBL31ZT				1 × NO
NYGBL51S	NYGBL51ST			TK/T1+F2/	1 × NO
NYGBL61K	NYGBL61KT				1 × NO
NYGBL42P	NYGBL42PT				1 × NC
RELEVANT STANDARD EN 60947-1				RELEVANT STANDARD EN 60947-5-1	

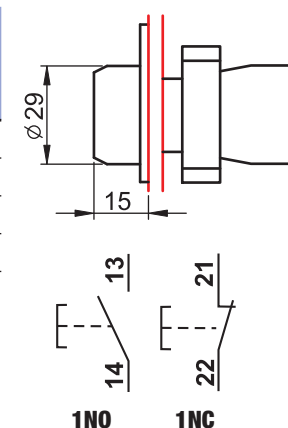


Pushbuttons with rubber boot

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	$[mm^2]$ 0,5-2,5	$\times 10^6$	F_{on} max. 20 N	T_a -25...+70°C	22 mm
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TRACON					
IP 55		+	IP44	IP44	NC NO
NYGBP21	NYGBP21T				1 × NO
NYGBP31Z	NYGBP31ZT				1 × NO
NYGBP51S	NYGBP51ST			TK/T1+F2/	1 × NO
NYGBP61K	NYGBP61KT				1 × NO
NYGBP42P	NYGBP42PT				1 × NC
RELEVANT STANDARD EN 60947-1				RELEVANT STANDARD EN 60947-5-1	

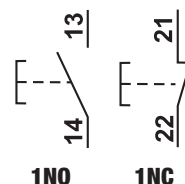
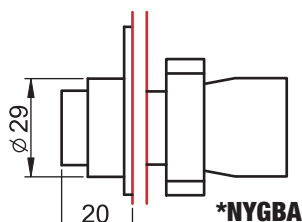
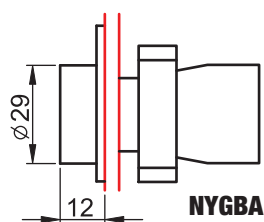


Pushbuttons with symbols

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} max. 20 N	T_a -25...+70°C	22 mm	Pictograms	K/0
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TRACON			TK/T1+F2/	1 × NO
IP 42	IP 44	IP 44		
NYGBA3351	NYGBA3351T		TK/T1+F2/	1 × NO
NYGBA3341	NYGBA3341T			1 × NO
NYGBA3311Z	NYGBA3311ZT			1 × NO
NYGBA4222P	NYGBA4222PT			1 × NC
NYGBA4322P*	NYGBA4322PT*			1 × NC

* Protruding versions

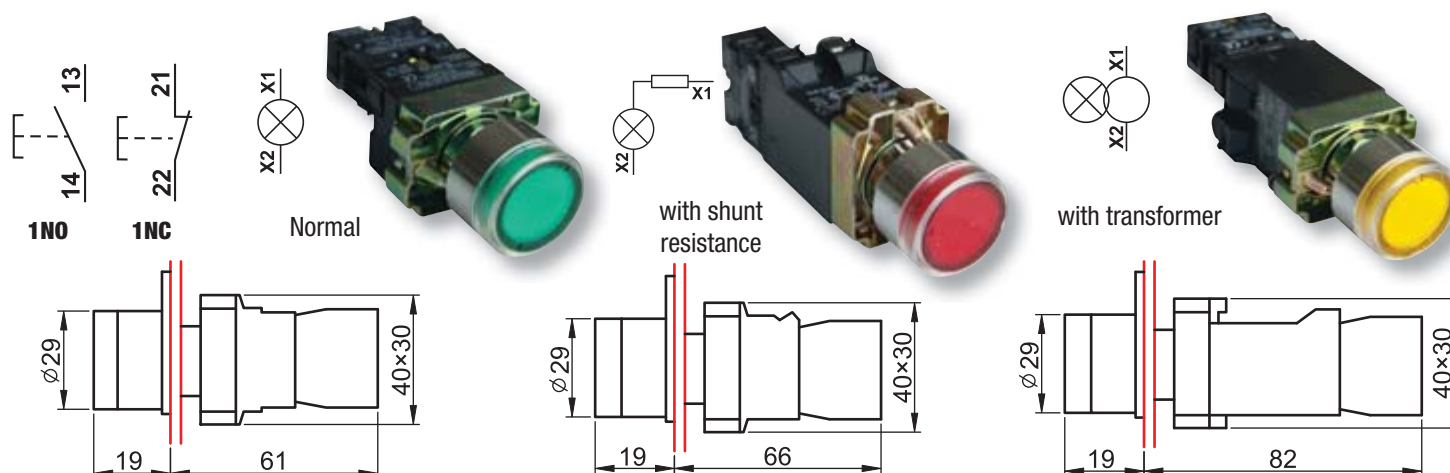


Pushbuttons with built-in signal light (Ba9s)

TRACON			TK/T2+F2/	1 × NO	U _m	
IP 42	IP 44	IP 44				
	NYGBW33Z	NYGBW33ZT	TK/T2+F2/	1 × NO	max. 400 V	NYGI230*
	NYGBW33S	NYGBW33ST		1 × NO	max. 400 V	NYGI230*
	NYGBW33K	NYGBW33KT		1 × NO	max. 400 V	NYGI230*
	NYGBW33P	NYGBW33PT		1 × NC	max. 400 V	NYGI230*
	NYGBW3371Z	NYGBW3371ZT	TK/T2+F2/	1 × NO	230-240 V	NYGI130**
	NYGBW3571S	NYGBW3571ST		1 × NO	230-240 V	NYGI130**
	NYGBW3471P	NYGBW3471PT		1 × NC	230-240 V	NYGI130**
	NYGBW3341Z	-	-	1 × NO	230-240 V	NYGI6**
	NYGBW3541S	-		1 × NO	230-240 V	NYGI6**
	NYGBW3441P	-		1 × NC	230-240 V	NYGI6**
	NYGBW3351Z	-		1 × NO	400 V	NYGI6**
	NYGBW3551S	-		1 × NO	400 V	NYGI6**
	NYGBW3451P	-		1 × NC	400 V	NYGI6**

* The applicable bulb should be selected in accordance to the operating voltage!

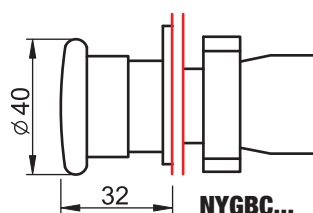
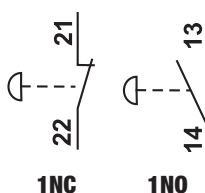
** Signal lamps with ballast are operated under 130 V, by versions with transformer the operating voltage is 6 V.



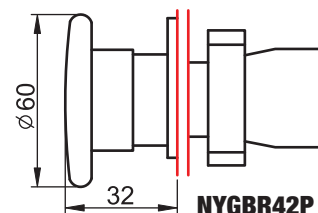
Pushbuttons with mushroom head

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} max. 20 N	T_a -25...+70°C	22 mm	Pictograms	K/O
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TRACON									
IP 42	IP44	IP44	IP44			IP44	NC NO		
NYGBC21	NYGBC21T	-						1 × NO	
NYGBC31Z	NYGBC31ZT	-						1 × NO	
NYGBC51S	NYGBC51ST	-						1 × NO	40 mm
NYGBC61K	NYGBC61KT	-						1 × NO	
NYGBC42P	NYGBC42PT	NYGBC42PTS						1 × NC	
NYGBR42P	NYGBR42PT	NYGBR42PTS						1 × NC	60 mm



RELEVANT STANDARD
EN 60947-1

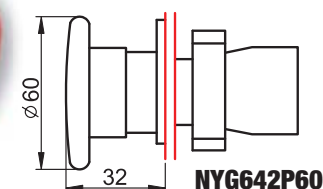
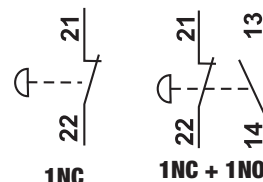
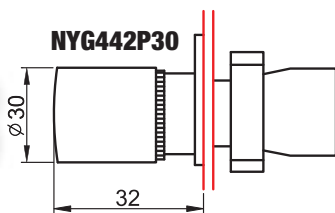


RELEVANT STANDARD
EN 60947-5-1

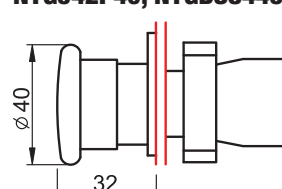
Emergency pushbuttons with mushroom head

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} max. 20 N	F_{off} max. 15 N	T_a -25...+70°C	Pictograms	K/O
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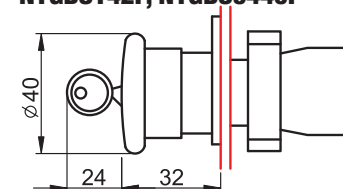
TRACON									
IP 42	IP44	IP44	IP44			IP44	NC NO		
NYG442P30	NYG442P30T	NYG442P30TS						1 × NC	30 mm
NYG542P40	NYG542P40T	NYG542P40TS						1 × NC	40 mm
NYG642P60	NYG642P60T	NYG642P60TS						1 × NC	60 mm
NYGBS8445P	NYGBS8445PT	NYGBS8445PTS						1 × NC+1 × NO	40 mm
NYGBS142P	NYGBS142PT	NYGBS142PTS						1 × NC	40 mm
NYGBS9445P	NYGBS9445PT	NYGBS9445PTS						1 × NC+1 × NO	40 mm



NYG542P40, NYGBS8445P



NYGBS142P, NYGBS9445P

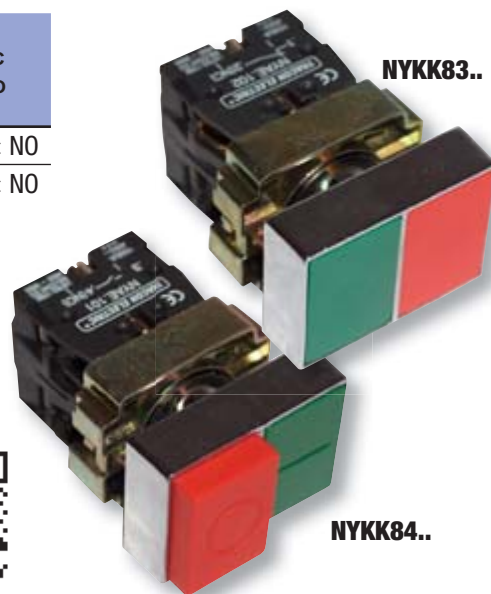
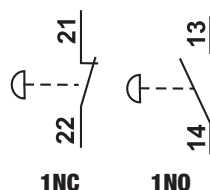
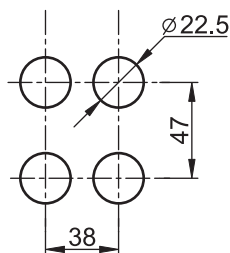
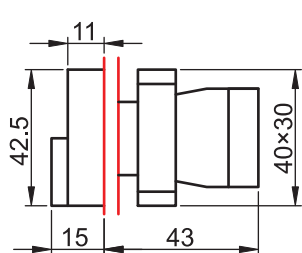


Double on-off pushbuttons

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} I max. 20 N	T_a -25...+70°C	22 mm
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TRACON					
IP 42	IP 44				
NYKK8325	NYKK8325T			TK/T1+F2/	1 × NC+1 × NO
NYKK8425	NYKK8425T	I	O		1 × NC+1 × NO



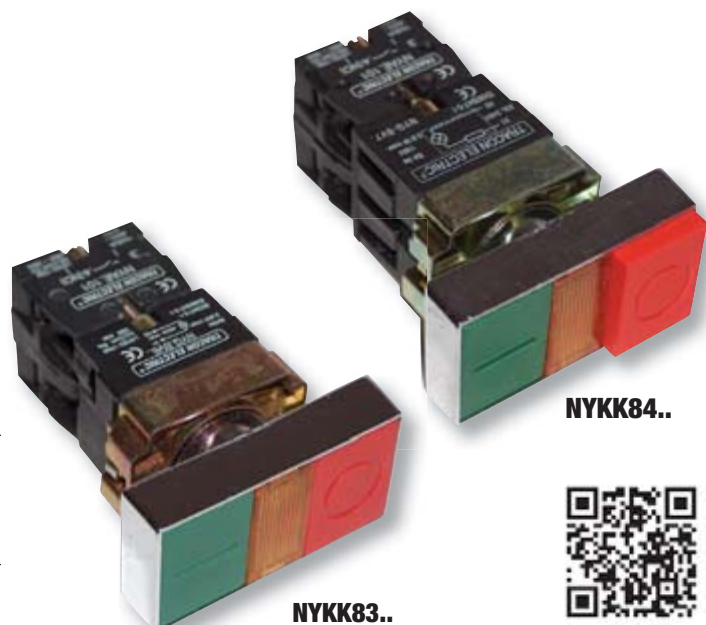
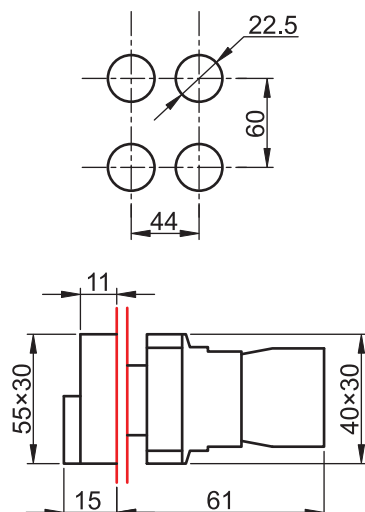
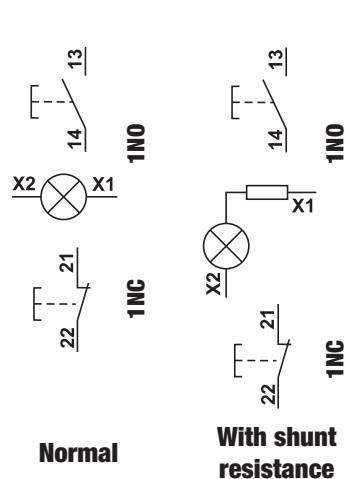
Double, on-off pushbuttons with pilot light (Ba9s)

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} I max. 20 N	T_a -25...+70°C	22 mm
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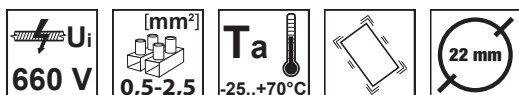
TRACON							
						NC NO	U _m
X2 ⊗ X1	NYKK8365	I		O	1 × NC+1 × NO	max. 400 V	NYGI230*
	NYKK8465	I		O	1 × NC+1 × NO	max. 400 V	NYGI230*
X2 ⊗ X1	NYKK8375	I		O	1 × NC+1 × NO	240 V	NYGI130**
	NYKK8475	I		O*	1 × NC+1 × NO	240 V	NYGI130**

* The applicable bulb should be selected in accordance to the operating voltage!

** Signal lamps with ballast are operated under 130 V.



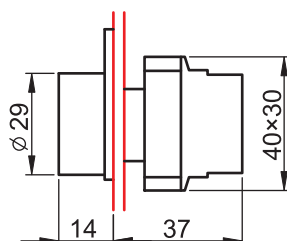
Signal lamps (Ba9s)



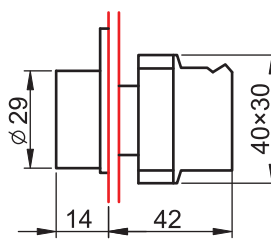
TRACON				Um	
IP 42		IP44		IP44	
	NYGBV61	NYGBV61T		max. 400 V	NYGI230*
	NYGBV63Z	NYGBV63ZT		max. 400 V	NYGI230*
	NYGBV65S	NYGBV65ST		max. 400 V	NYGI230*
	NYGBV66K	NYGBV66KT		max. 400 V	NYGI230*
	NYGBV73Z	NYGBV73ZT		230-240 V	NYGI130**
	NYGBV74P	NYGBV74PT		230-240 V	NYGI130**
	NYGBV75S	NYGBV75ST		230-240 V	NYGI130**
	NYGBV43Z	NYGBV43ZT		230-240 V	NYGI6**
	NYGBV44P	NYGBV44PT		230-240 V	NYGI6**
	NYGBV45S	NYGBV45ST		230-240 V	NYGI6**
	NYGBV53Z	NYGBV53ZT		400 V	NYGI6**
	NYGBV54P	NYGBV54PT		400 V	NYGI6**
	NYGBV55S	NYGBV55ST		400 V	NYGI6**

* The applicable bulb should be selected in accordance to the operating voltage!

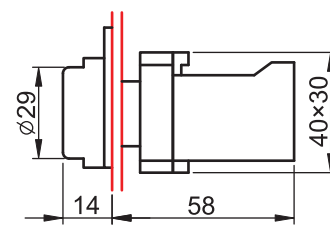
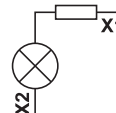
** Signal lamps with ballast are operated under 130 V, by versions with transformer the operating voltage is 6 V.



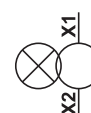
Normal



With shunt resistance



With transformer

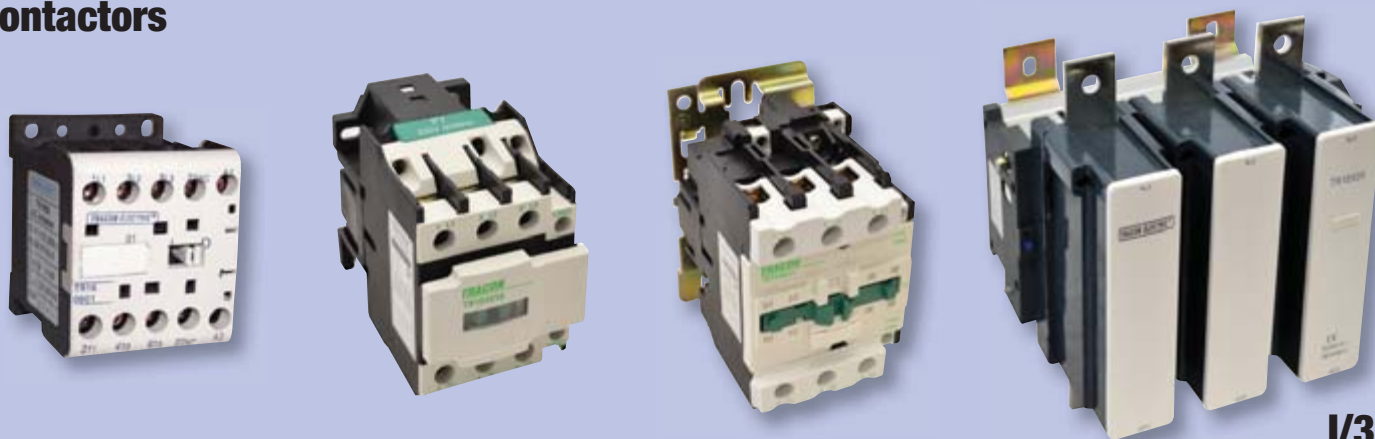


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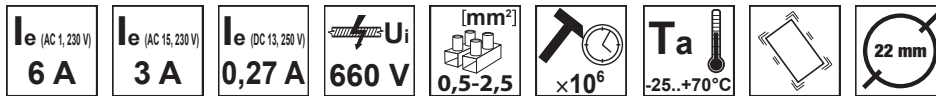


Contactors



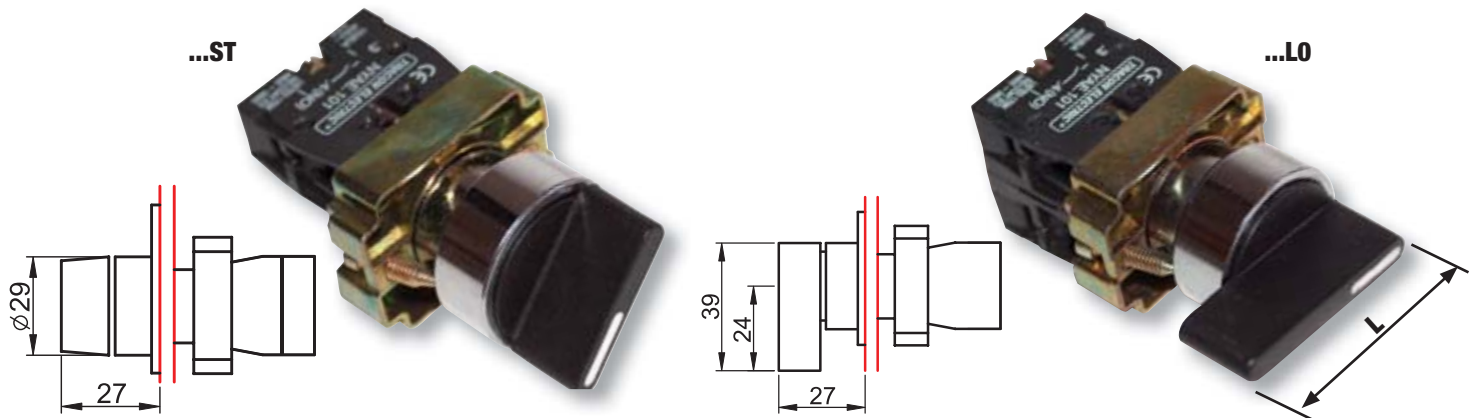
I/34

Selector switches



TRACON			IP44		NC NO		L
IP 42			+				
Normal	NYBD21KST	NYBD21KSTT			1 × NO		29 mm
	NYBJ21KL0	NYBJ21KL0T			1 × NO		39 mm
	KBD25ST	KBD25STT			1 × NC+1 × NO		29 mm
	KBJ25L0	KBJ25L0T			1 × NC+1 × NO		39 mm
	NYBD33KST	NYBD33KSTT			2 × NO		29 mm
	NYBJ33KL0	NYBJ33KL0T			2 × NO		39 mm
With spring return	NYBD41KST	NYBD41KSTT			1 × NO		29 mm
	NYBJ41KL0	NYBJ41KL0T			1 × NO		39 mm
	NYBD45KST	NYBD45KSTT			1 × NC+1 × NO		29 mm
	NYBJ45KL0	NYBJ45KL0T			1 × NC+1 × NO		39 mm
	NYBD53KST	NYBD53KSTT			2 × NO		29 mm
	NYBJ53KL0	NYBJ53KL0T			2 × NO		39 mm

TK/T1+F2/

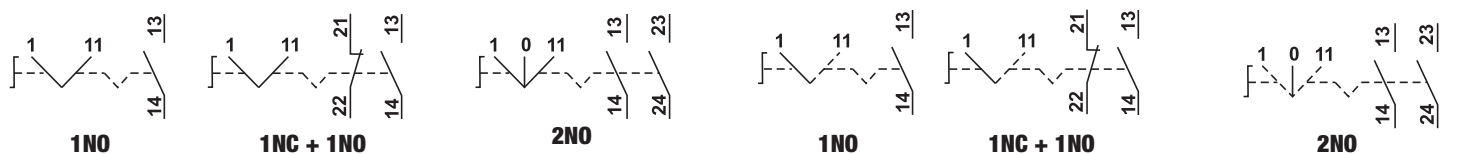


Two position normal

Three position normal

Two position with spring return

Three position with spring return



Selector switches with built-in signal light (Ba9s)



I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	T_a -25...+70°C	U_m max. 400 V	22 mm
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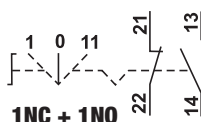


TRACON				TK/T1+F2/	IP44	NC NO	Signal lamp
IP 42	IP 44	+	IP 44				
Normal	NYGBK2365Z	NYGBK2365ZT	1 2			1 × NC+1 × NO	NYGLZ
	NYGBK2565S	NYGBK2565ST	1 2			1 × NC+1 × NO	NYGLS
	NYGBK2665K	NYGBK2665KT	1 2			1 × NC+1 × NO	NYGLK
	NYGBK2465P	NYGBK2465PT	1 2			1 × NC+1 × NO	NYGLP
	NYGBK3365Z	NYGBK3365ZT	1 0 2			1 × NC+1 × NO	NYGLZ
	NYGBK3565S	NYGBK3565ST	1 0 2			1 × NC+1 × NO	NYGLS
	NYGBK3665K	NYGBK3665KT	1 0 2			1 × NC+1 × NO	NYGLK
	NYGBK3465P	NYGBK3465PT	1 0 2			1 × NC+1 × NO	NYGLP

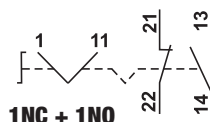
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RELEVANT STANDARD
EN 60947-5-1

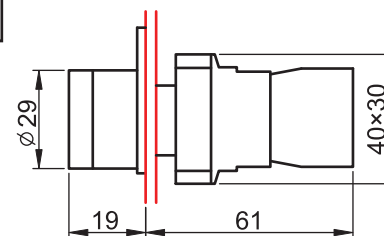
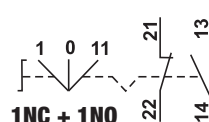
Three position with
spring return



Two position normal



Three position normal



Key switches



I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	T_a -25...+70°C	22 mm
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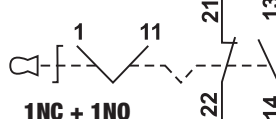


TRACON				TK/T1+F2/	IP44	NC NO	Key switch
IP 42	IP 44	+	IP 44				
Normal	NYBG21KK	NYBG21KKT	1 2			1 × NO	1 2
	NYBG41KK	NYBG41KKT	1 2			1 × NO	1 2
	NYBG25KK	NYBG25KKT	1 2			1 × NC+1 × NO	1 2
	NYBG53KK	NYBG53KKT	1 0 2			2 × NO	1 0 2
With spring return	NYBG61KK	NYBG61KKT	1 2			1 × NO	1 2
	NYBG65KK	NYBG65KKT	1 2			1 × NC+1 × NO	1 2
	NYBG73KK	NYBG73KKT	1 0 2			2 × NO	1 0 2

Two position normal



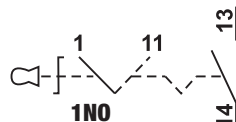
Two position normal



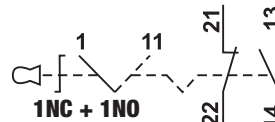
Three position normal



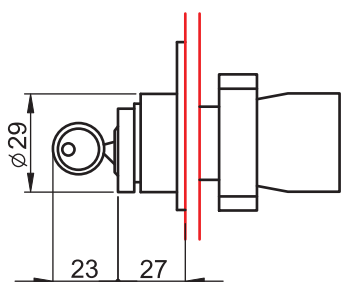
Two position with
spring return



Two position with
spring return



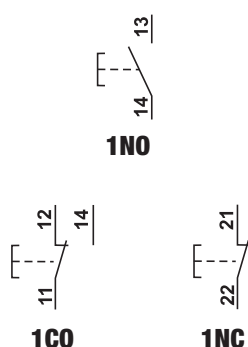
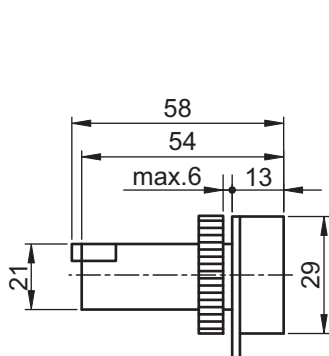
Three position with
spring return



Pushbuttons, switches and signal lamps with plastic body

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 12, 230 V) 0,4 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} I max. 20 N	T_a -25...+70°C	22 mm	Pictograms	K/0
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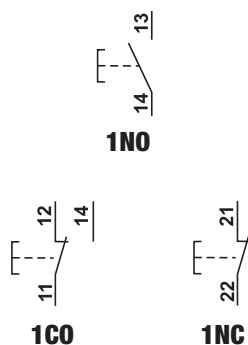
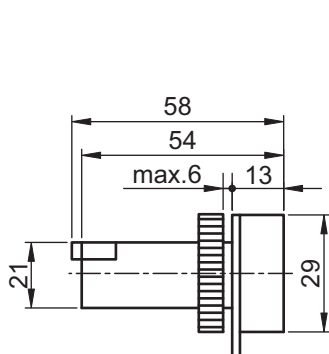
TRACON		TK/T1+F2/	IP44	NC NO CO
IP 42	IP44			
NYGEA121	NYGEA121T			1 × NO
NYGEA131Z	NYGEA131ZT			1 × NO
NYGEA151S	NYGEA151ST			1 × NO
NYGEA161K	NYGEA161KT			1 × NO
NYGEA142P	NYGEA142PT			1 × NC
NYGEA125	NYGEA125T			1 × CO
NYGEA135Z	NYGEA135ZT			1 × CO
NYGEA145P	NYGEA145PT			1 × CO



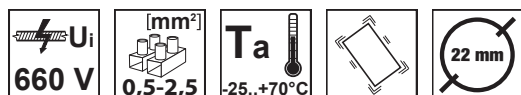
Push-switches

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 12, 230 V) 0,4 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} I max. 20 N	F_{off} max. 15 N	T_a -25...+70°C	22 mm
--	---	---	--------------------------------------	---	------------------------	---	--	--	--------------

TRACON		TK/T1+F2/	IP44	NC NO CO
IP 42	IP44			
NYGEH142P	NYGEH142PT			1 × NC
NYGEH125F	NYGEH125FT			1 × CO
NYGEH135Z	NYGEH135ZT			1 × CO
NYGEH145P	NYGEH145PT			1 × CO
NYGEH155S	NYGEH155ST			1 × CO
NYGEH165K	NYGEH165KT			1 × CO



Signal lamps (Ba9s)



TRACON			U _m		IP44	
IP 42						
	NYGEV133Z	NYGEV133ZT		max. 130 V		NYGI130*
	NYGEV163Z	NYGEV163ZT		max. 250 V		..*
	NYGEV164P	NYGEV164PT		max. 250 V		..*
	NYGEV165S	NYGEV165ST		max. 250 V		..*
	NYGEV166K	NYGEV166KT		max. 250 V		..*
	NYGEV443Z	NYGEV443ZT		max. 250 V	TK/T1+F2/	NYGI230*
	NYGEV445S	NYGEV445ST		max. 250 V		NYGI230*
	NYGEV446K	NYGEV446KT		max. 250 V		NYGI230*
	NYGEV453Z	NYGEV453ZT		max. 400 V		NYGI230*
	NYGEV454P	NYGEV454PT		max. 400 V		NYGI230*
	NYGEV455S	NYGEV455ST		max. 400 V	TK/T1+F2/	NYGI230*
	NYGEV456K	NYGEV456KT		max. 400 V		NYGI230*
	NYGEV173Z	NYGEV173ZT		230-240 V		NYGI130**
	NYGEV175S	NYGEV175ST		230-240 V		NYGI130**
	NYGEV176K	NYGEV176KT		230-240 V	-	NYGI130**
	NYLBV853Z	-		230-240 V		NYGI6**
	NYLBV854P	-		230-240 V		NYGI6**
	NYLBV855S	-		230-240 V		NYGI6**
	NYLBV856K	-		230-240 V		NYGI6**
	NYLBV873Z	-		400 V		NYGI6**
	NYLBV874P	-		400 V	-	NYGI6**
	NYLBV875S	-		400 V		NYGI6**
	NYLBV876K	-		400 V		NYGI6**

* The applicable bulb should be selected in accordance to the operating voltage!

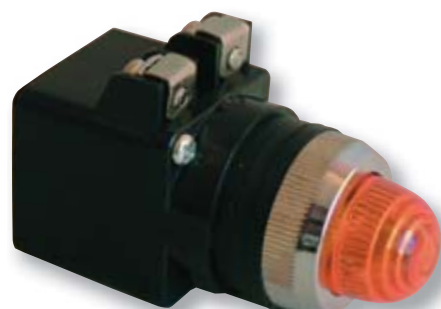
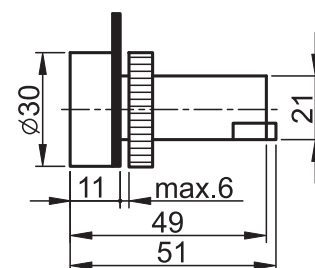
** Signal lamps with ballast are operated under 130 V, by versions with transformer the operating voltage is 6 V.



Normal



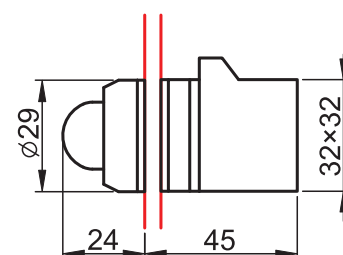
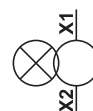
With shunt resistance



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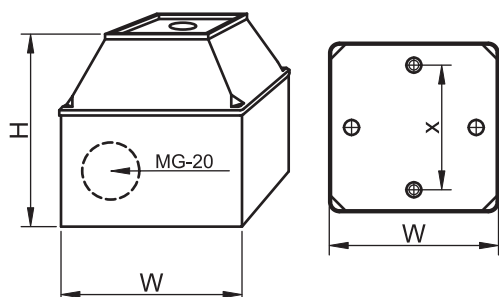
RELEVANT STANDARD
EN 60947-5-1

With transformer



Enclosures

TRACON		W (mm)	H (mm)	x (mm)		IP..
TK/T1+F2/		68	64	44	2 × MG-20	IP 44
TK/T2+F2/		68	80	44	2 × MG-20	IP 44
TK/T1+F2S/		68	64	44	2 × MG-20	IP 44
TK/T2+F2S/		68	80	44	2 × MG-20	IP 44



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Contact elements



3 — 4 (NO)
NYAE101



1 — 2 (NC)
NYAE102



TRACON



NYAE101

1 × NO

NYAE102

1 × NC

If necessary, a maximum number of four contact elements can be fixed to the base unit.

Reduction rings



TRACON



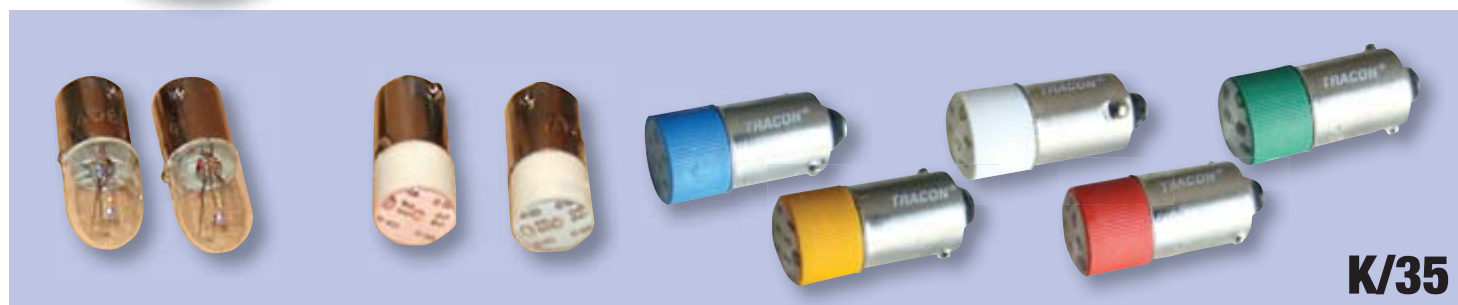
NYGR30/22

Reduction rings from D=30 mm to d=22 mm (pairs)

NYGR38/22

Reduction rings from D=38 mm to d=22 mm (pairs)

Reduction rings can be intercalated for proper fixing of control devices to boards in case some control devices have to be replaced in old type of boards.



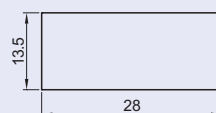
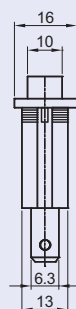
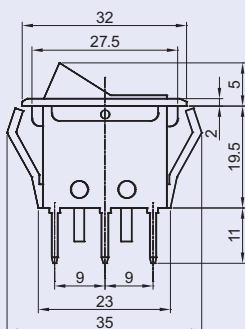
K/35

TES device switches

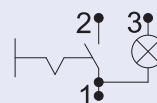
U_m max. 250 V	I_e (AC 1, 230 V) 16 A	I_e (AC 15, 230 V) 6 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	U_{imp} 6 kV	[mm²] 0,5-2,5	5×10⁴	[h] 15.000	% rH max. 95	T_a -20...+55°C	IP 42	10 A gG
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The device switches are suitable to be installed into various control devices, household machines and other electrical equipment. We suggest installing the device switches provided with signal lights in such places where it is important to indicate the ON condition of the equipment. The switch can be easily snapped into the mounting hole and wires equipped with 4,6 × 0,8 and 6,3 × 0,8 flat, slip-on, female clips can be connected onto its standard terminals.

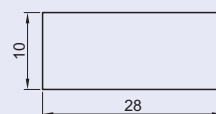
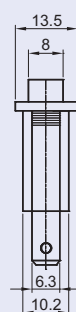
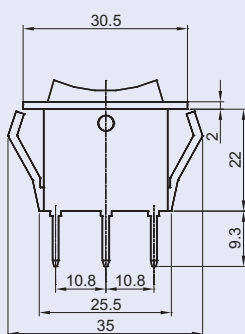
ON-OFF switch



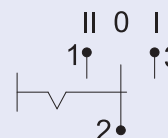
TRACON			
TES-11	6,3 × 0,8 mm		✓



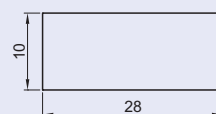
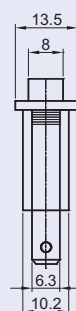
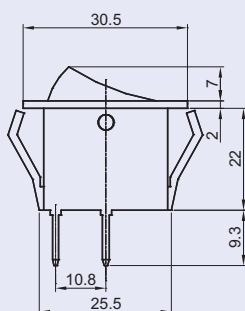
Middle 0 position switch



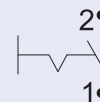
TRACON			
TES-12	6,3 × 0,8 mm	I-0-II	—



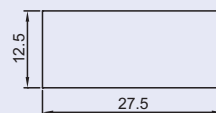
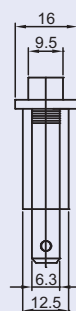
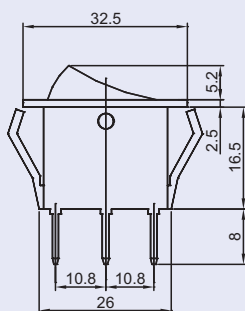
ON-OFF switch



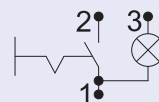
TRACON			
TES-13	6,3 × 0,8 mm	0-I	—

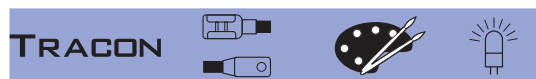


ON-OFF switch



TRACON			
TES-21	6,3 × 0,8 mm		✓

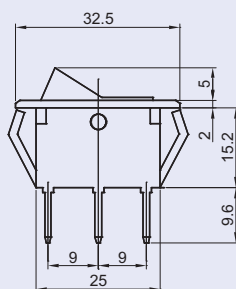
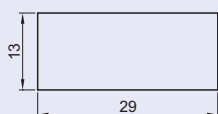
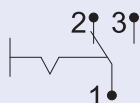




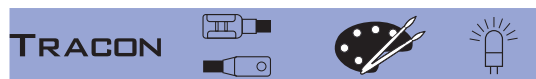
TES-22

4,8 × 0,8 mm

0-1



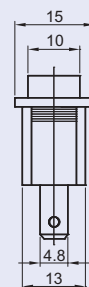
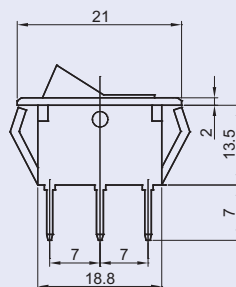
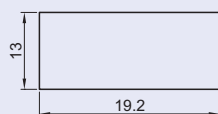
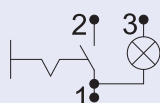
Alternate switch



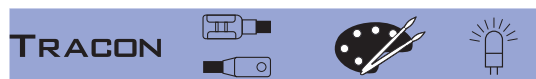
TES-33

4,8 × 0,8 mm

0-1



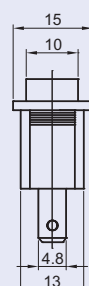
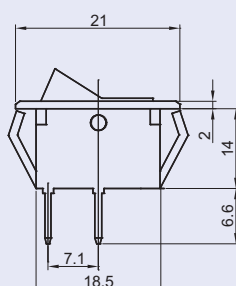
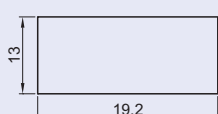
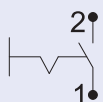
ON-OFF switch



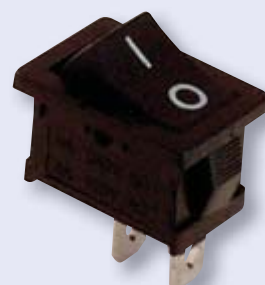
TES-34

4,8 × 0,8 mm

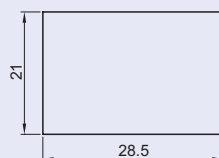
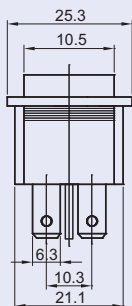
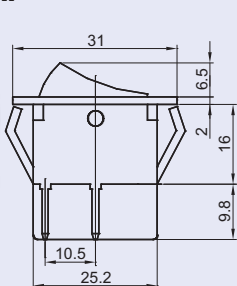
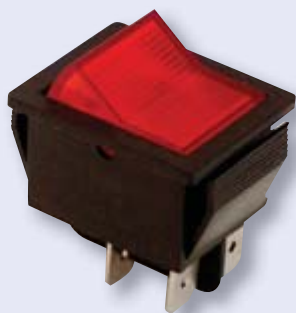
0-1



ON-OFF switch



2 poles switch ON-OFF switch

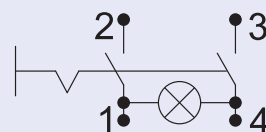


TRACON

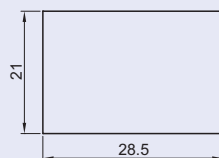
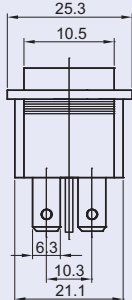
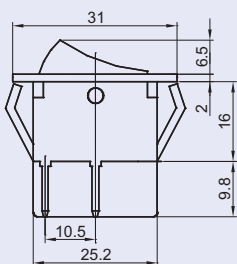


TES-41

6,3 × 0,8 mm



2 poles switch ON-OFF switch

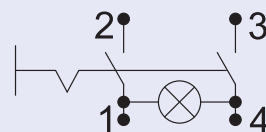


TRACON

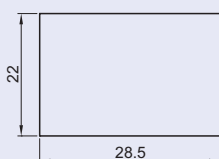
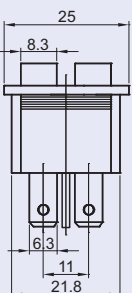
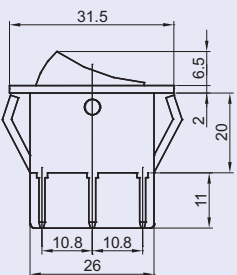


TES-42

6,3 × 0,8 mm



ON-OFF switch

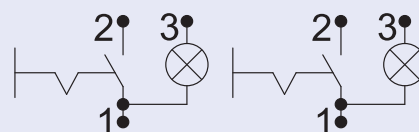
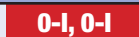


TRACON

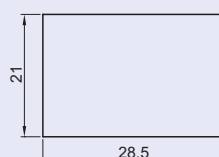
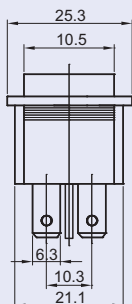
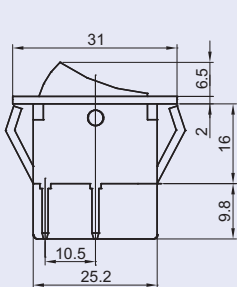


TES-43

6,3 × 0,8 mm



2 poles switch ON-OFF switch

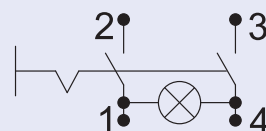


TRACON

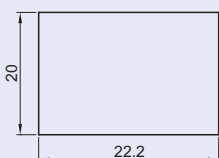
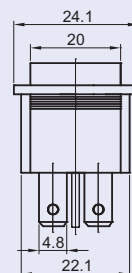
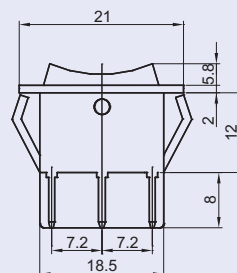


TES-44

6,3 × 0,8 mm



2 poles switch ON-OFF switch

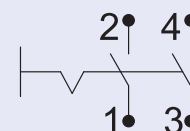


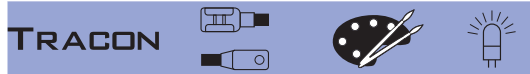
TRACON



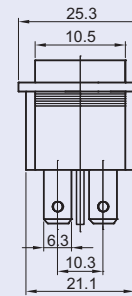
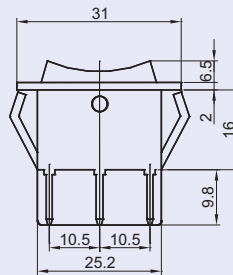
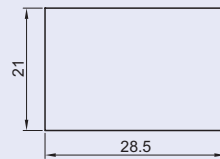
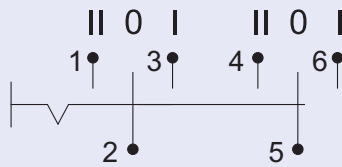
TES-51

4,8 × 0,8 mm





TES-52	6,3 × 0,8 mm	I-0-II	—
TES-52-1	6,3 × 0,8 mm	I-0-II	✓
TES-52-2	6,3 × 0,8 mm	I-0-II	—

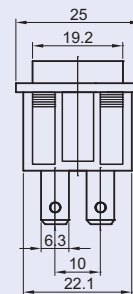
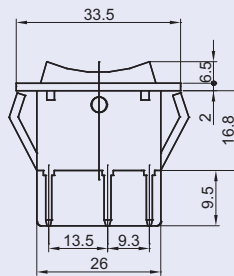
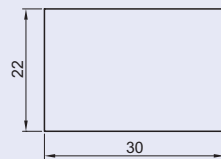


TES-52

2 poles switch ON-OFF switch



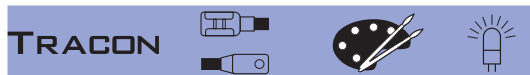
TES-52-1



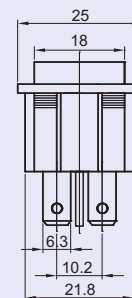
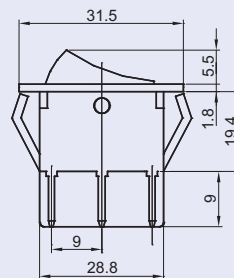
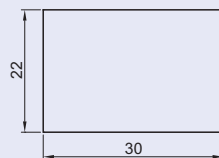
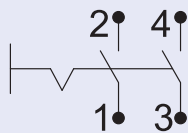
2 poles switch ON-OFF switch (With spring return)



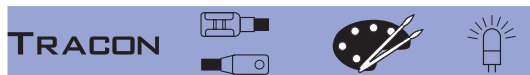
TES-52-2



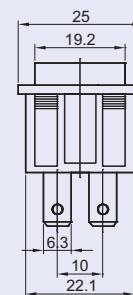
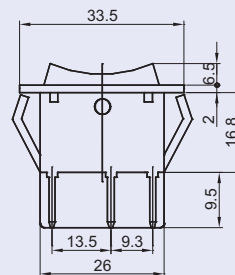
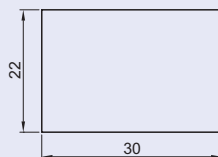
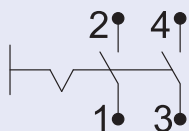
TES-53	6,3 × 0,8 mm	0-I	—
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2 poles switch ON-OFF switch



TES-53-1	6,3 × 0,8 mm	0-I	—
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2 poles switch ON-OFF switch (With spring return)



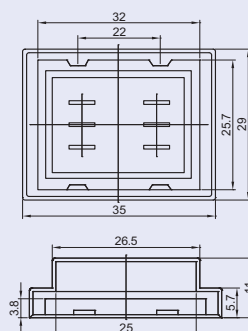
TRACON

TES-GB

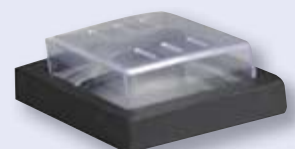
IP 55

Can be fitted to next versions:

TES-42	TES-52-1
TES-43	TES-52-2
TES-52	TES-53



PVC membrane



Relay safety switches



K/0

The SSTM type switches are appropriate for safe ON/OFF switching of various machine tools or electric devices, as they ensure automatic protection against unwanted start, when power supply returns after a network failure. The power failure relay is factory built-in, without own output contacts, the operating voltage is ensured by the load-side contacts of the switch. In case of power failure, the relay disconnects the controlled device from the power supply line. Re-start is only possible with repeated operation of the green pushbutton, by the user.

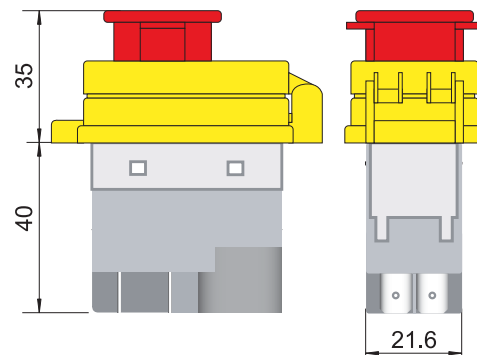
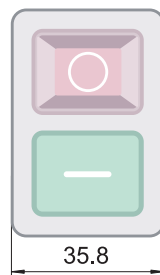
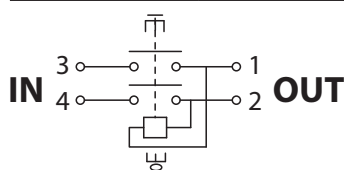
Attention! A device must be connected according to the diagram on the side of the housing.



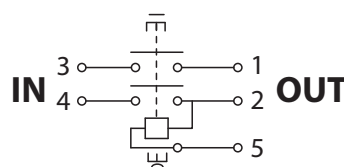
SSTM-01..



TRACON SSTM-01



TRACON SSTM-015



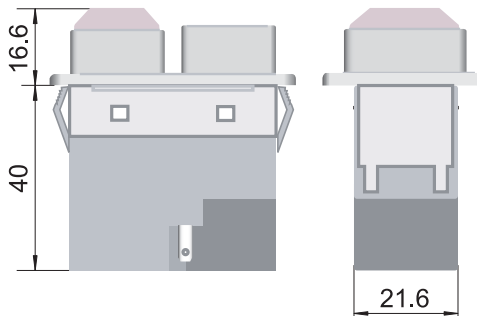
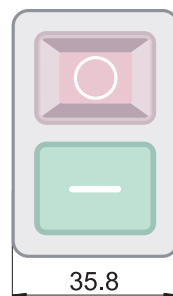
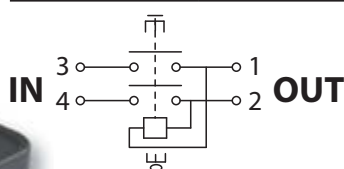
230
V AC

I_e (AC 3, 230 V)
12 A

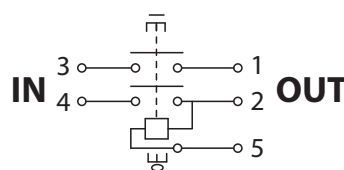
SSTM-02..



TRACON SSTM-02



TRACON SSTM-025



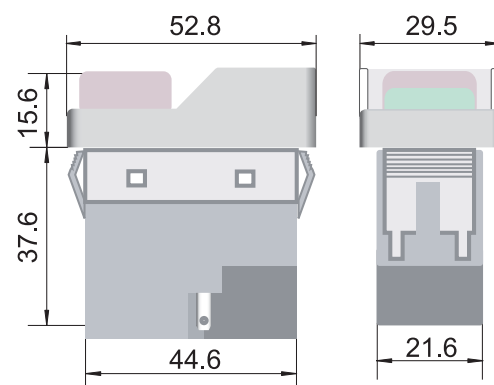
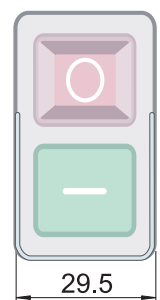
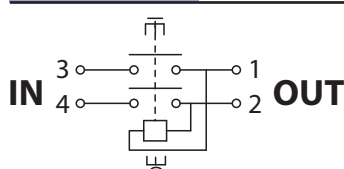
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V AC

I_e (AC 3, 230 V)
12 A

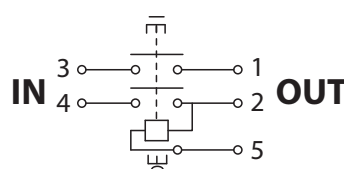
SSTM-03..



TRACON SSTM-03

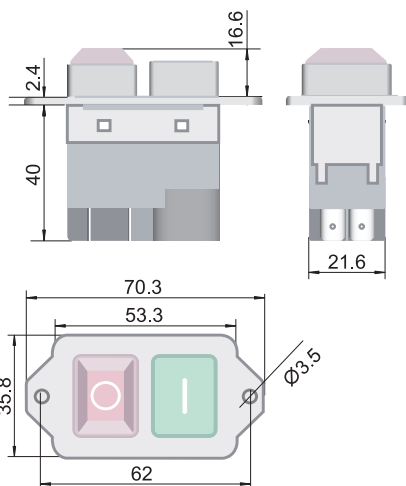
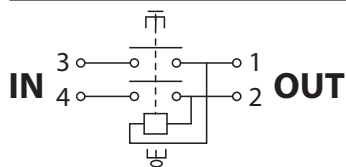
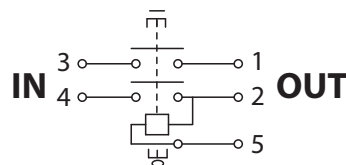
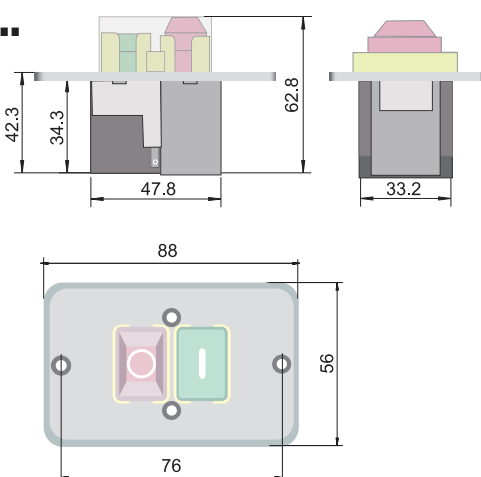
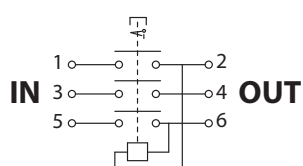
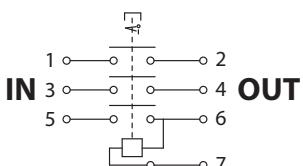
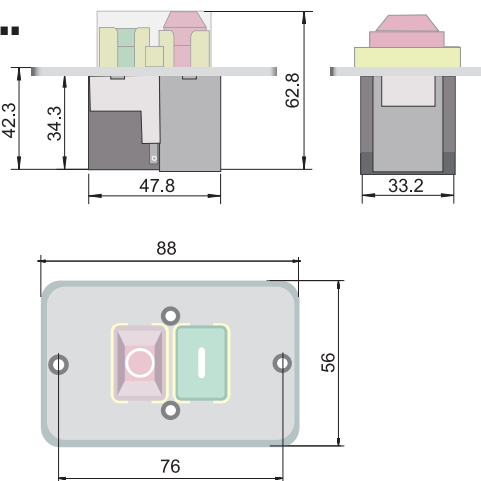
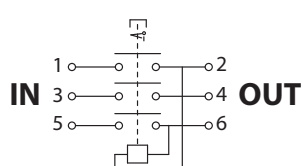
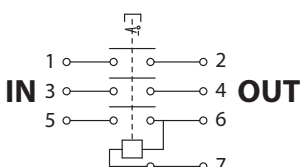


TRACON SSTM-035



230
V AC

I_e (AC 3, 230 V)
12 A

SSTM-04..**230
V AC****I_e (AC 3, 230 V)
12 A****TRACON SSTM-04****TRACON SSTM-045****SSTM-31..****400
V AC****I_e (AC 3, 400 V)
8 A****TRACON SSTM-316****TRACON SSTM-317****SSTM-32..****400
V AC****I_e (AC 3, 400 V)
8 A****TRACON SSTM-326****TRACON SSTM-327****Electronics boxes****M/14****SSTM-BOX**

Can be fitted to next versions:

**SSTM-02
SSTM-31
SSTM-32****113×77×60 mm****IP
42****TRACON SSTM-BOX**

One phase isolating transformers TVTR



Pictograms

K/0

TRACON	P _n	U _{pr}	U _{sec}	P _{sec} *	I _{sec}
TVTR-50-A	50 VA	230 V	3-6-12-18-24 V	6,25-12,5-25-37,5-50 VA	2,08 A
TVTR-50-B		230 V	6-12-18-24 V	12,5-25-37,5-50 VA	2,08 A
TVTR-50-C		230 V	12-24-42 V	14,2-28,5-50 VA	1,19 A
TVTR-50-D		230 V	24-42-110 V	10-19-50 VA	0,45 A
TVTR-50-F		230 V	24-230 V	5,2-50 VA	0,21 A
TVTR-100-A	100 VA	230 V	3-6-12-18-24 V	12,5-25-50-75-100 VA	4,16 A
TVTR-100-B		230 V	6-12-18-24 V	25-50-75-100 VA	4,16 A
TVTR-100-C		230 V	12-24-42 V	28,5-57,1-100 VA	2,38 A
TVTR-100-D		230 V	24-42-110 V	21,8-38,1-100 VA	0,90 A
TVTR-100-F		230 V	24-230 V	10,4-100 VA	0,43 A
TVTR-150-B	150 VA	230 V	6-12-18-24 V	37,5-75-112,5-150 VA	6,25 A
TVTR-150-C		230 V	12-24-42 V	42,8-85,7-150 VA	3,57 A
TVTR-150-D		230 V	24-42-110 V	32,7-57,2-150 VA	1,36 A
TVTR-150-E		230 V	42-110-230 V	27,3-71,7-150 VA	0,65 A
TVTR-150-F		230 V	24-230 V	15,6-150 VA	0,65 A
TVTR-200-B	200 VA	230 V	6-12-18-24 V	50-100-150-200 VA	8,30 A
TVTR-200-C		230 V	12-24-42 V	57,1-114,2-200 VA	4,76 A
TVTR-200-D		230 V	24-42-110 V	43,6-76,3-200 VA	1,81 A
TVTR-200-E		230 V	42-110-230 V	36,5-95,6-200 VA	0,86 A
TVTR-200-F		230 V	24-230 V	20,8-200 VA	0,86 A

* depending on the secondary voltage at the tapping exit;



In these devices the primary coil is separated from the secondary coil by a basic insulator. They can be used for power transmission, control, signalling actuating or other low voltage electric circuits, e.g. to generate **functional low voltage (FELV)** according to the standard **HD 60364-4-41** or to perform electrical protection to a secondary consumer with simple insulation.

The transformers deliver one-phase power with eight different secondary voltage values (U_{sec}=3-6-12-18-24-42-110-230 V).

The transformers are built in conformity to the requirements within **EN 60742** and **EN 61558**. Their degree of protection is IP00, i. e. they are meant to be built in as parts into another equipment. Connections are ensured by screwed connectors with IP 20 degree of protection. Rated powers range between 50 – 630 VA, depending on construction. The secondary coil has more wiretapping exits. The rated power refers to the highest secondary voltage value. At the other wire-tapping exits the transformer delivers proportionally lower power values (see table).

RELEVANT STANDARD
EN 61558-1

RELEVANT STANDARD
EN 61558-2-1



SCAN THE QR CODE!

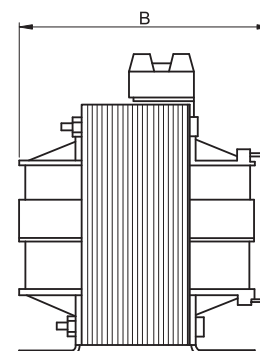
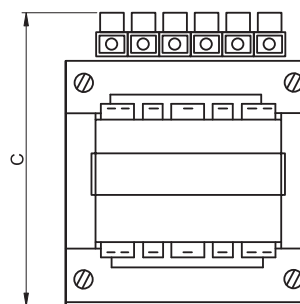
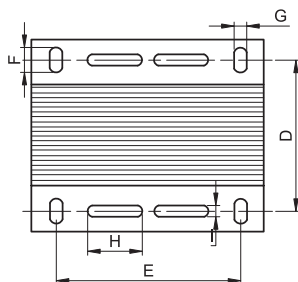
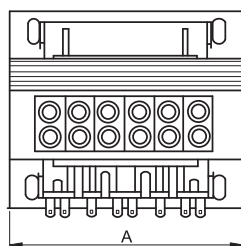
- Check our new products
- Be updated

Our range of products is continuously and quickly expanding. Our catalogue shows our products as of October 2017. Check our website to stay up-to-date.

TRACON	P _n	U _{pr}	U _{sec}	P _{sec} *	I _{sec}
TVTR-250-B	250 VA	230 V	6-12-18-24 V	62,5-125-187,5-250 VA	10,41 A
TVTR-250-C		230 V	12-24-42 V	71,4-142,8-250 VA	5,95 A
TVTR-250-D		230 V	24-42-110 V	54,5-95,4-250 VA	2,27 A
TVTR-250-E		230 V	42-110-230 V	45,6-119,5-250 VA	1,08 A
TVTR-250-F		230 V	24-230 V	26-250 VA	1,08 A
TVTR-300-B	300 VA	230 V	6-12-18-24 V	75-150-225-300 VA	12,50 A
TVTR-300-C		230 V	12-24-42 V	85,7-171,4-300 VA	7,14 A
TVTR-300-D		230 V	24-42-110 V	65,4-114,5-300 VA	2,72 A
TVTR-300-E		230 V	42-110-230 V	54,7-143,4-300 VA	1,30 A
TVTR-300-F		230 V	24-230 V	31,3-300 VA	1,30 A
TVTR-400-B	400 VA	230 V	6-12-18-24 V	100-200-300-400 VA	16,66 A
TVTR-400-C		230 V	12-24-42 V	114,2-228,5-400 VA	9,52 A
TVTR-400-D		230 V	24-42-110 V	87,2-152,7-400 VA	3,63 A
TVTR-400-E		230 V	42-110-230 V	73-191,3-400 VA	1,73 A
TVTR-400-F		230 V	24-230 V	41,7-400 VA	1,73 A
TVTR-500-C	500 VA	230 V	12-24-42 V	142,8-285,7-500 VA	11,90 A
TVTR-500-D		230 V	24-42-110 V	109-190,9-500 VA	4,54 A
TVTR-500-E		230 V	42-110-230 V	91,3-239,1-500 VA	2,17 A
TVTR-500-F		230 V	24-230 V	52,1-500 VA	2,17 A
TVTR-630-C	630 VA	230 V	12-24-42 V	180-360-630 VA	15 A
TVTR-630-D		230 V	24-42-110 V	137,4-240,5-630 VA	5,72 A
TVTR-630-E		230 V	42-110-230 V	115-301,3-630 VA	5,73 A
TVTR-630-F		230 V	24-230 V	65,7-630 VA	2,73 A

* depending on the secondary voltage at the tapping exit;

TRACON	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	m
TVTR-50	75	80	77	50	56	10	5,5	28	4	1,2 kg
TVTR-100	85	90	85	59	64	10	5,5	40	5	1,9 kg
TVTR-150	98	90	95	65	84	12	6	40	5	2,6 kg
TVTR-200	98	100	95	74	84	12	6	40	5	3,1 kg
TVTR-250	98	110	95	84	84	12	6	40	5	3,6 kg
TVTR-300	110	110	103	82	90	12	6	-	-	4,6 kg
TVTR-400	123	112	110	84	90	14	7	50	5	5,3 kg
TVTR-500	122	120	107	98	90	14	7	50	5	6,3 kg
TVTR-630	154	115	135	87	122	22	8	50	5	7,2 kg

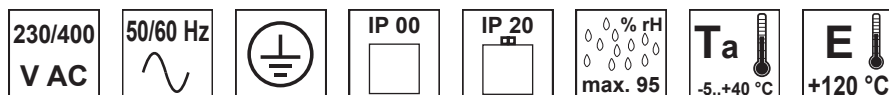


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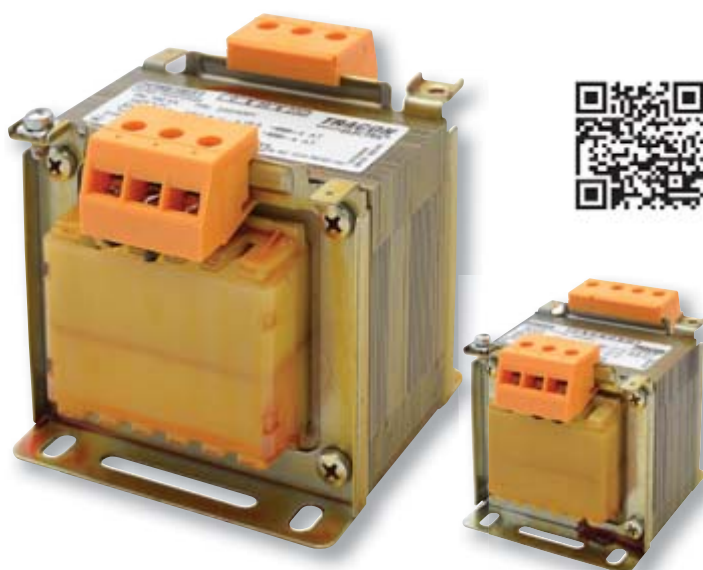
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One phase isolating safety transformers TVTRB



TRACON	P _n	U _{pr}	U _{sec}	P _{sec} *	I _{sec}
TVTRB-60-A	60 VA	230-400 V	6-12-24 V	15-30-60 VA	2,5 A
TVTRB-60-F		230-400 V	24-230 V	6,2-60 VA	0,26 A
TVTRB-60-0		230 V	42 V	60 VA	1,43 A
TVTRB-100-A	100 VA	230-400 V	6-12-24 V	25-50-100 VA	4,17 A
TVTRB-100-F		230-400 V	24-230 V	10,4-100 VA	0,43 A
TVTRB-100-0		230 V	42 V	100 VA	2,38 A

* depending on the secondary voltage at the tapping exit;



These products are meant for insulating separation in low-voltage power transmission, actuating, signalling, control and other circuits, to generate **shock-proof low voltage (SELV)** according to the standard **MSZ HD 60364-4-41**. A protective separation is built in between the primary and secondary coil.

The safety insulating transformers deliver at the secondary side so-called safety low voltage below 50 V. The insulating transformers deliver at the secondary side low voltage above 50 V.

All our transformers satisfy the requirements set within **EN 60742** and **EN 61558**. Their degree of protection is IP00, i. e. they are meant to be built in as parts into another equipment. Connections are ensured by screwed connectors with IP 20 degree of protection.

Rated powers range between 60 – 600 VA, depending on construction. The secondary coil has more wire-tapping exits.

The rated power refers to the highest secondary voltage value. At the other wire-tapping exits the transformer delivers proportionally lower power values (see table).

RELEVANT STANDARD
EN 61558-1

RELEVANT STANDARD
EN 61558-2-1

Low voltage current transformers



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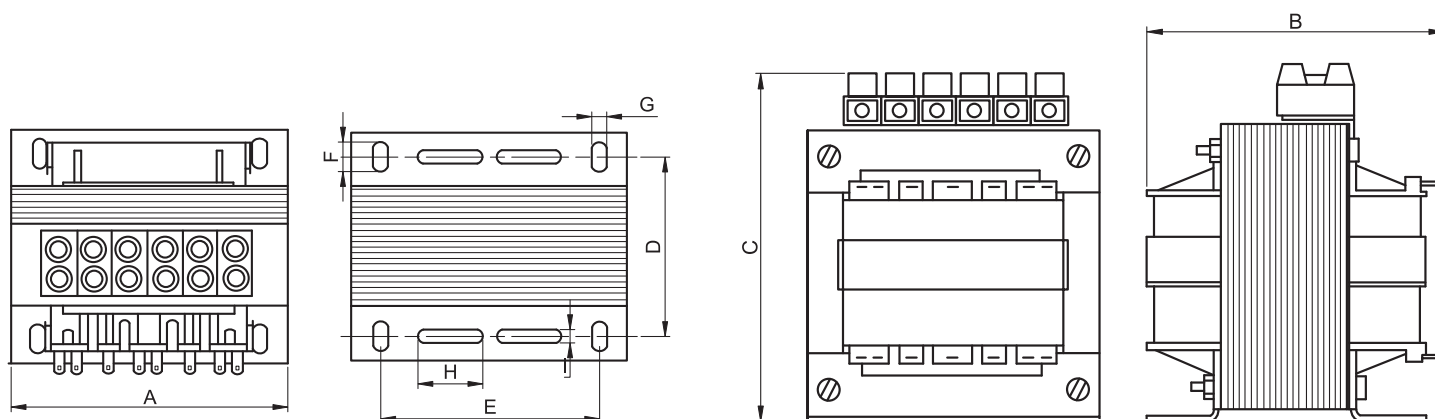
TRACON	P _n	U _{pr}	U _{sec}	P _{sec} *	I _{sec}
TVTRB-160-B	160 VA	230-400 V	12-24 V	80-160 VA	6,67 A
TVTRB-160-F		230-400 V	24-230 V	16,7-160 VA	0,70 A
TVTRB-160-M		230 V	12 V	160 VA	13,34 A
TVTRB-250-B	250 VA	230-400 V	12-24 V	125-250 VA	10,42 A
TVTRB-250-F		230-400 V	24-230 V	26-250 VA	1,09 A
TVTRB-250-O		230 V	42 V	250 VA	5,95 A
TVTRB-400-B	400 VA	230-400 V	12-24 V	200-400 VA	16,67 A
TVTRB-400-F		230-400 V	24-230 V	41,74-400 VA	1,74 A
TVTRB-400-O		230 V	42 V	400 VA	9,52 A
TVTRB-400-R		400 V	24 V	400 VA	16,67 A
TVTRB-600-B	600 VA	230-400 V	12-24 V	300-600 VA	25 A
TVTRB-600-D		230-400 V	24-42 V	342,9-600 VA	14,29 A
TVTRB-600-F		230-400 V	24-230 V	62,6-600 VA	2,61 A
TVTRB-600-O		230 V	42 V	600 VA	14,29 A
TVTRB-600-R		400 V	24 V	600 VA	25 A

* depending on the secondary voltage at the tapping exit;

TRACON	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	m
TVTRB-60	75	90	76	60	56	10	5	28	4	1,5 kg
TVTRB-100	84	89	84	54	64	10	5,5	40	5	2,0 kg
TVTRB-160	96	80	108	70	84	11	5,8	35	3,6	2,4 kg
TVTRB-250	98	98	95	65	84	12	6	40	5	2,7 kg
TVTRB-400	123	115	110	84	90	14	7	50	5	5,3 kg
TVTRB-600	155	135	135	98	122	22	8	50	5	7,7 kg

RELEVANT STANDARD
EN 61558-1

RELEVANT STANDARD
EN 61558-2-1



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