



LS15 limit switches 2



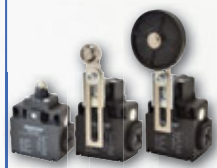
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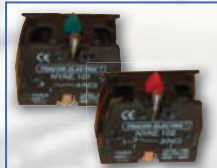
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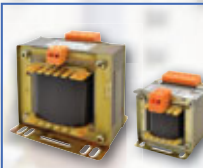
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One phase isolating transformers TVTR 52



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Pictograms of the table head

U_m Nominal control voltage

U_{pr} Primary voltage

1 2 Two position

1 2 Key takeout position (middle)

NC Electric data of contacts
NO

Nm Tighten torque

Basis type

m Weight

P_n Rated power

U_{sec} Secondary voltage

1 0 2 Three position

Key takeout position

Light (LED) units

M Thread

IP44 With enclosure IP 44

Sound signal

Rated power

I_{sec} Secondary current

Key takeout position (left)

REL-ON Releasing: by turning

Dimension

Quick-connecting terminals

IP.. Protection degree

IP 65 Protection degree from the front side

Notes, additions

P_{sec} Secondary power values

Key takeout position (left and right)

REL-ON Releasing: with key

Tape of socket

Cable glands

Colour

Pictograms of the technical data

230/400 V AC Rated voltage (V)

I_e (AC 1, 230 V) 15 A Nominal operational current

90° The operator heads can be turned in 90° steps!

×10⁶ Mechanical life

IP 42 Protection degree (installed, from the front side)

% rH max. 95 Relativ humidity

U_m max. 400 V Nominal control voltage

50/60 Hz Rated frequency

90° The operator heads can be turned in 90° steps, the arm in 180° steps!

E +120 °C Heat-proof category

IP 20 Protection of terminals (basic)

Ta -25..+55°C Ambient temperature

U_i 660 V Rated insulation voltage

10 A gG Suggested backup fuse

F_{on} max. 20 N Switching on force

Protection class: I.

IP 55 Protection degree

22 mm Cutting size

U_{imp} 6 kV Rated impulse withstand voltage

[mm²] 0,5-2,5 Connectable cable

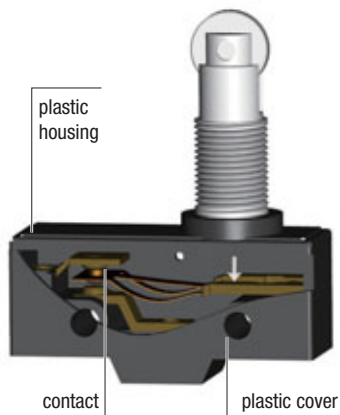
F_{off} max. 15 N Switching off force

ON-OFF-ON... sc/h ×3.600 Switching frequency (C-0 cycles/hour)

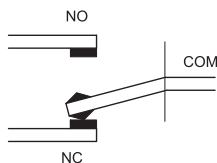
Vibration resistance

LS15 limit switches

I_{th} 15 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 12, 230 V) 0,3 A	U_i 500 V	mm² 0,5-1,5	×10⁶ ×1.800	ON-OFF-ON... sc/h ×1.800	T_a -25...+55°C	IP 00
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Type of contact: C

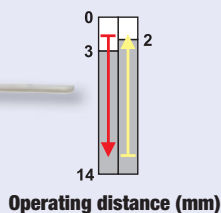


RELEVANT STANDARD
EN 60947-1

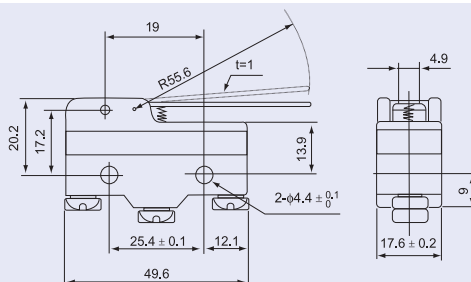
RELEVANT STANDARD
EN 60947-5-1

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

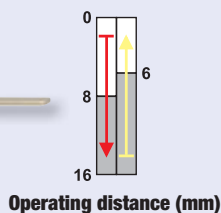
Version with spring handle



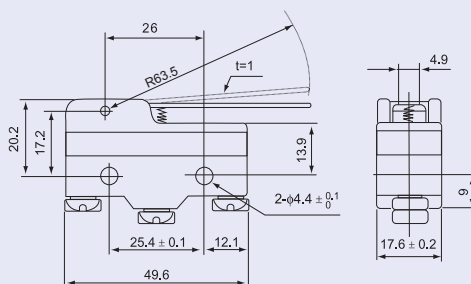
TRACON LS15GM-B



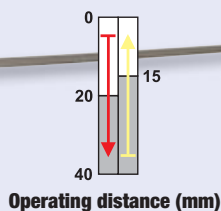
Version with spring handle



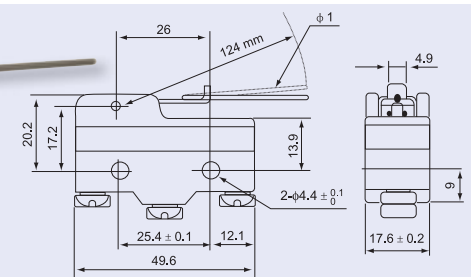
TRACON LS15GW-B



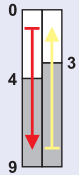
Version with spring handle



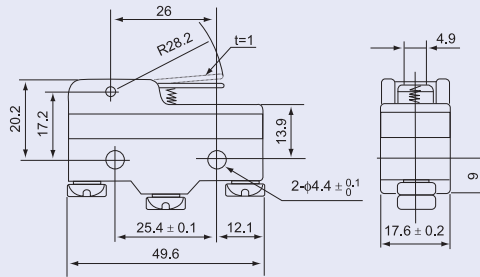
TRACON LS15HW24-B



Version with spring handle

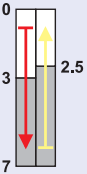


Operating distance (mm)

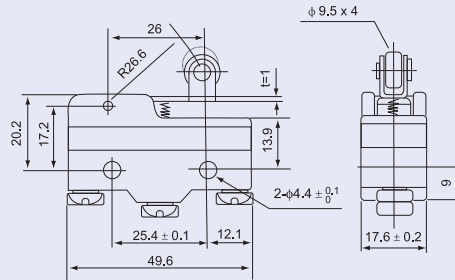


TRACON LS15GW21-B

Version with spring handle and roll

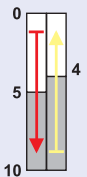


Operating distance (mm)

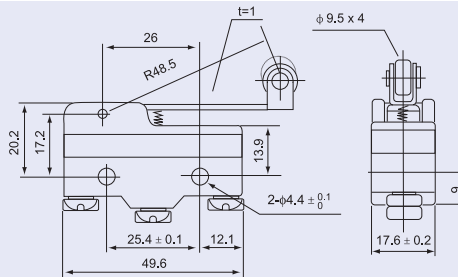


TRACON LS15GW22-B

Version with spring handle and roll

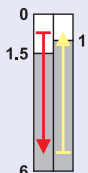


Operating distance (mm)

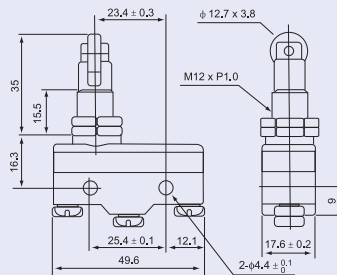


TRACON LS15GW2-B

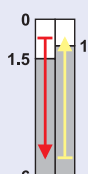
Version with roll



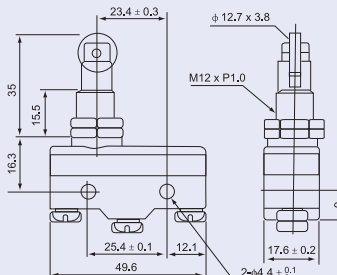
Operating distance (mm)

TRACON
LS15GQ21-B

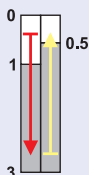
Version with roll



Operating distance (mm)

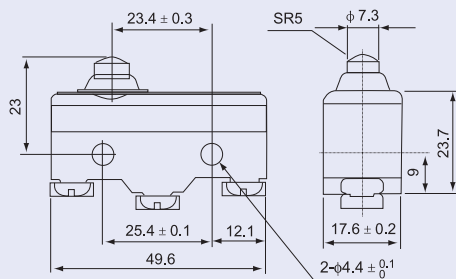
TRACON
LS15GQ22-B

Version with cone bumper

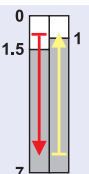


Operating distance (mm)

TRACON LS15GD-B

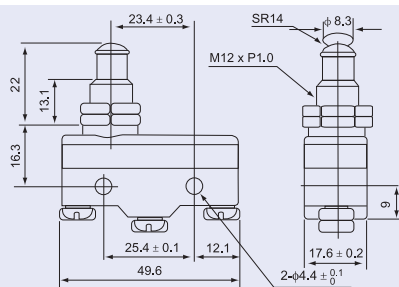


Version with cone bumper

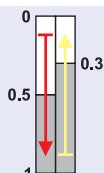


Operating distance (mm)

TRACON LS15GQ-B

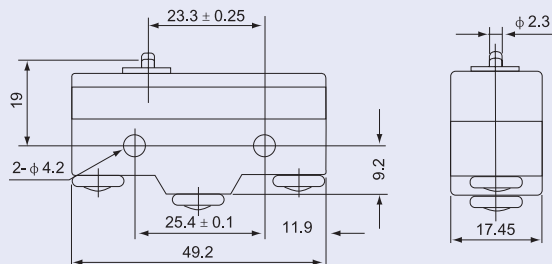


Version with bumper



Operating distance (mm)

TRACON LS15G-B



Cover for LS15 limit switch



IP 40



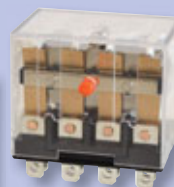
TRACON LS15-COV



Relays



J/2-J/9



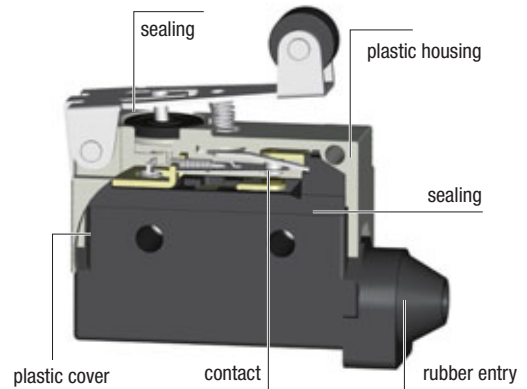
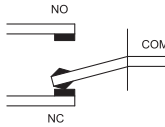
LS7 limit switches

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	×10⁶ x1.800	ON-OFF-ON sc/h	T_a -25...+55°C	IP 40	Pictograms	K/O
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RELEVANT STANDARD
EN 60947-1

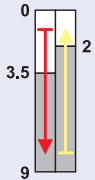
RELEVANT STANDARD
EN 60947-5-1

Type of contact: C

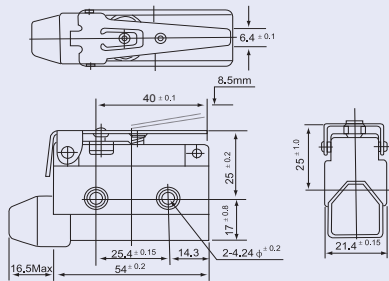


- Strong housing
- Changeover contact
- Contact point for ring terminals
- Easy wire connection
- With different type switching mechanism

Version with spring handle

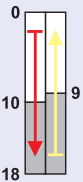


Operating distance (mm)

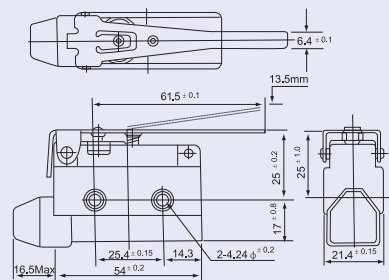


TRACON **LS7140**

Version with spring handle

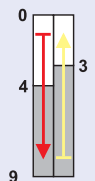


Operating distance (mm)

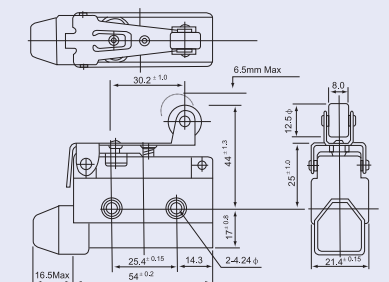


TRACON **LS7120**

Version with spring handle and roll

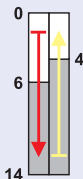


Operating distance (mm)



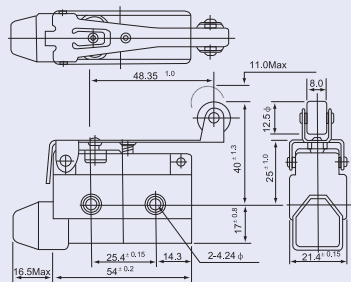
TRACON **LS7141**

Version with spring handle and roll

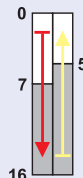


Operating distance (mm)

TRACON **LS7121**

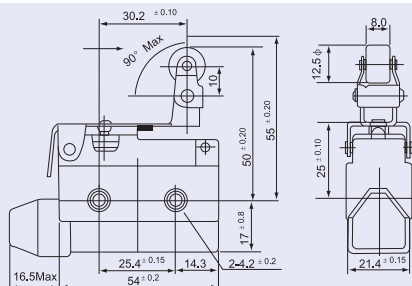


Version with spring handle and jointed roll

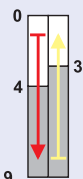


Operating distance (mm)

TRACON **LS7144**

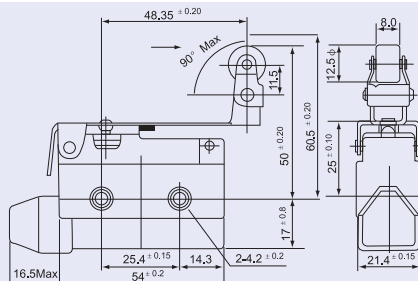


Version with spring handle and jointed roll

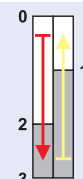


Operating distance (mm)

TRACON **LS7124**

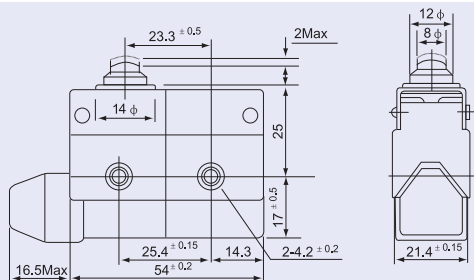


Version with cone bumper

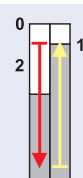


Operating distance (mm)

TRACON **LS7100**

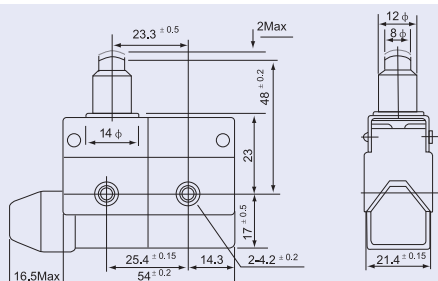


Version with cone bumper

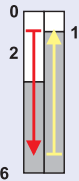


Operating distance (mm)

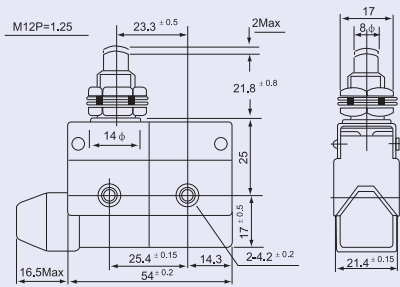
TRACON **LS7110**



Version with cone bumper



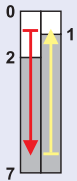
Operating distance (mm)



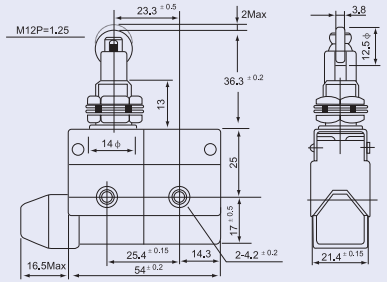
TRACON

LS7310

Version with roll



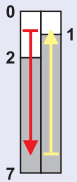
Operating distance (mm)



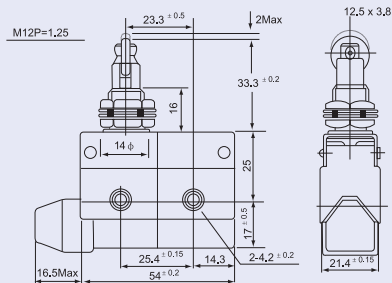
TRACON

LS7311

Version with roll



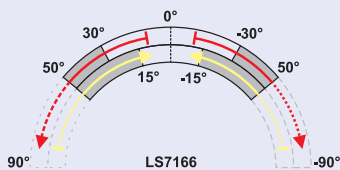
Operating distance (mm)



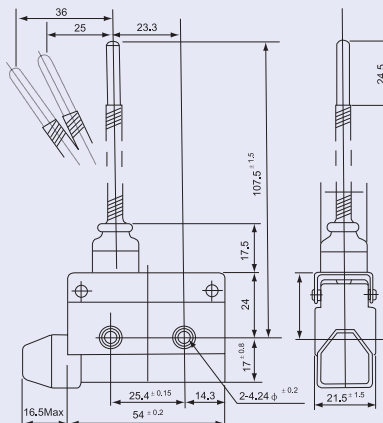
TRACON

LS7312

Version with spring stick



Operating distance (°)

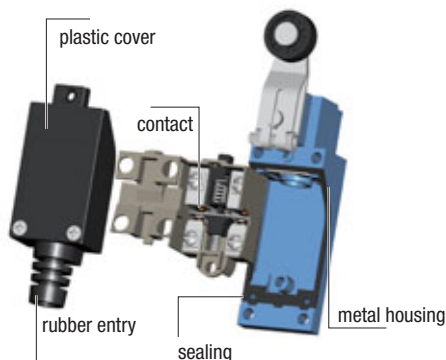


TRACON

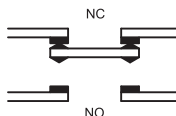
LS7166

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 12, 200 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 65
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Type of contact: Za



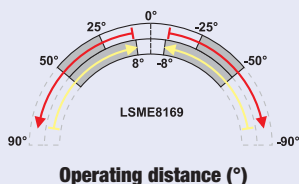
RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

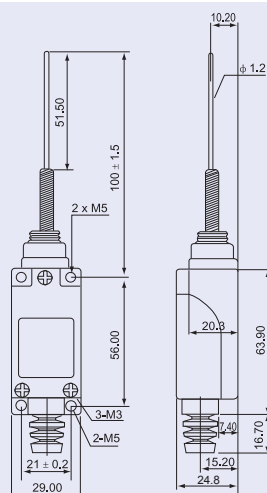
- double contacts
- massive construction
- plastic and aluminum die-cast
- water- and oilproof

- double spring mechanism
- long lifetime
- easy wiring

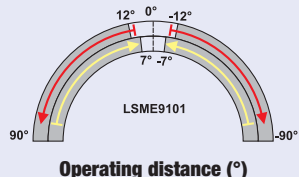
Version with spring stick



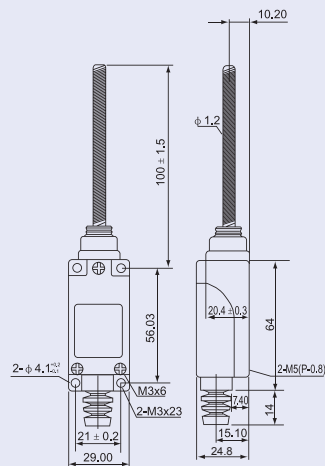
TRACON LSME8169



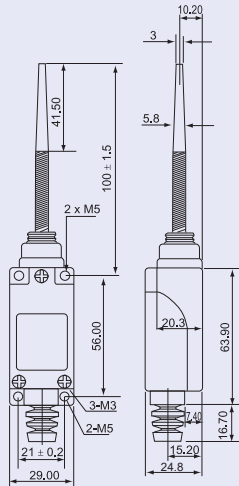
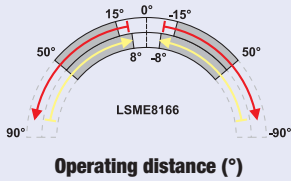
Version with spring stick



TRACON LSME9101

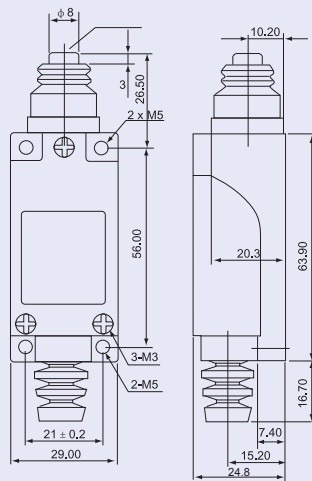
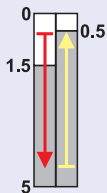


Version with spring stick



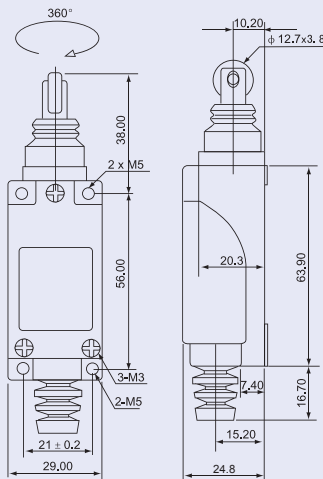
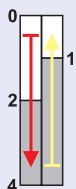
TRACON LSME8166

Version with cone bumper



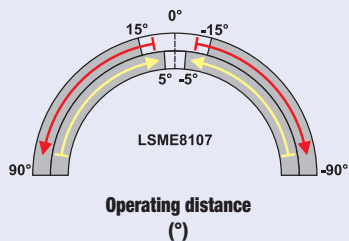
TRACON LSME8111

Version with roll

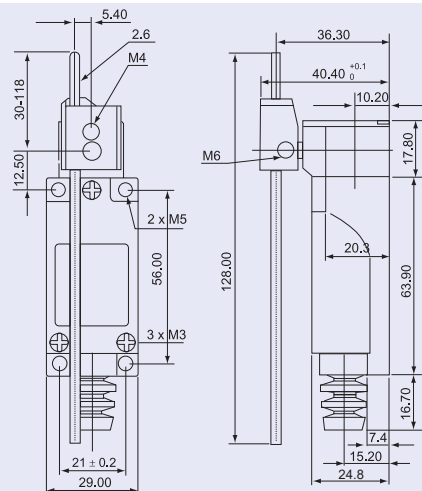


TRACON LSME8122

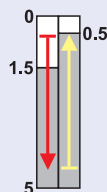
Version with twisting arm and stick



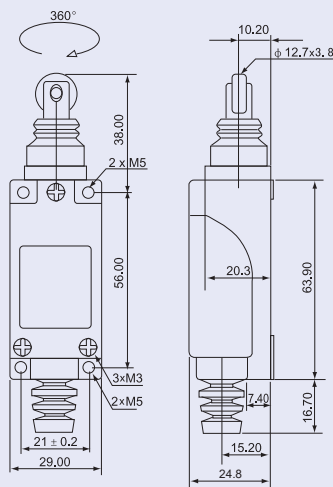
TRACON LSME8107



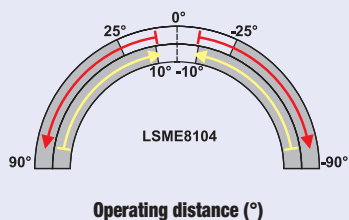
Version with roller bumper



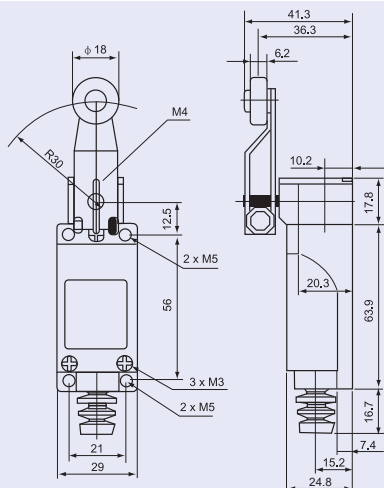
TRACON LSME8112



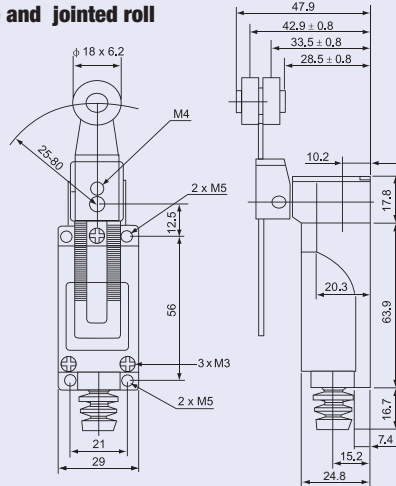
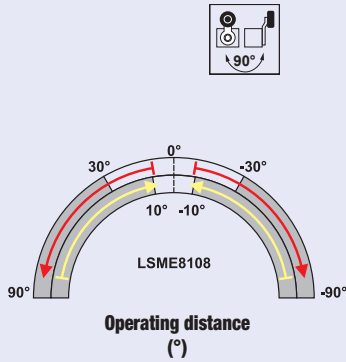
Version with twisting arm and roll



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®

M/2



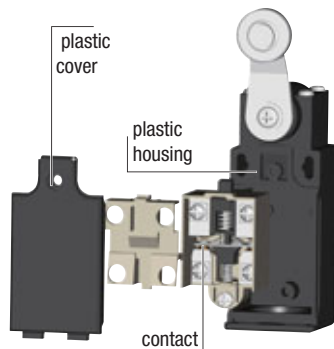
SCAN THE QR CODE!

- Check our new products
- Be updated

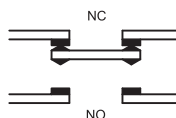
Our range of products is continuously and quickly expanding. Our catalogue shows our products as of April 2019. Check our website to stay up-to-date.

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 12, 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

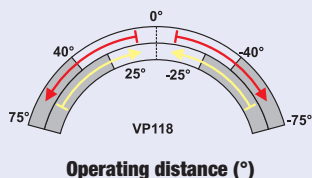
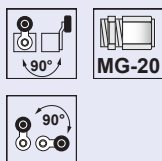


- double contacts
- strong plastic cover
- massive construction
- precise switching
- long lifetime
- easy wiring

RELEVANT STANDARD
EN 60947-5-1

RELEVANT STANDARD
EN 60947-1

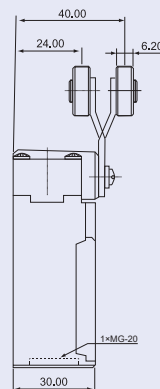
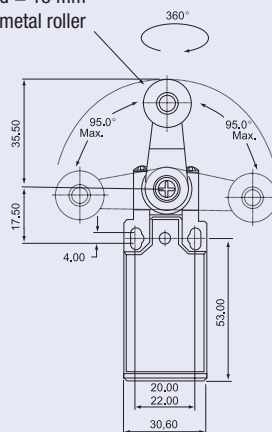
Version with twisting arm



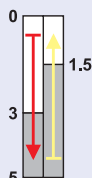
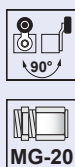
Operating distance (°)

TRACON VP118

d = 18 mm
metal roller



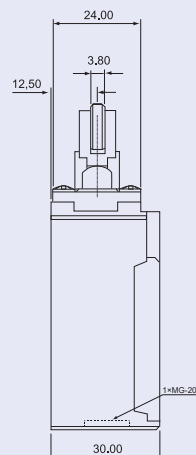
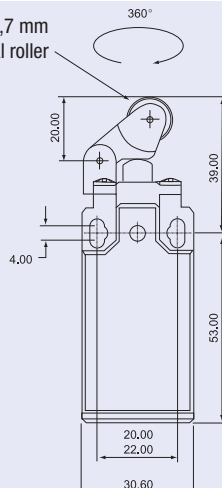
Version with twisting arm



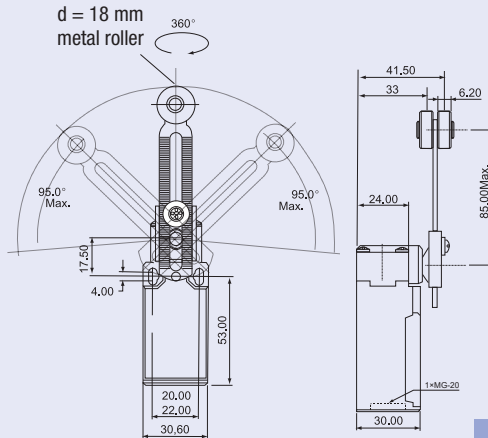
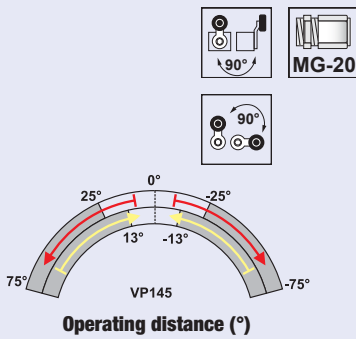
Operating distance (mm)

TRACON VP121

d = 12,7 mm
metal roller

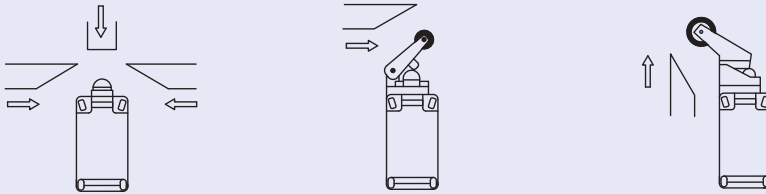


Version with adjustable rolling arm



TRACON VP145

Operation directions



THE PROPER TYPE FOR ALL APPLICATIONS

Plastic / metal

4-64 modules

Wall and recessed mount types

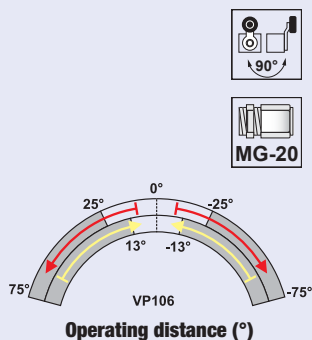
TRACON
.....ELECTRIC®

H/9

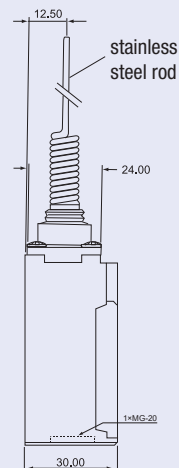
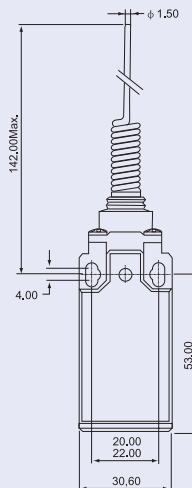
TRACON
.....ELECTRIC®

K/13

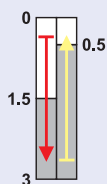
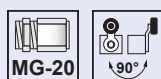
Version with spring stick



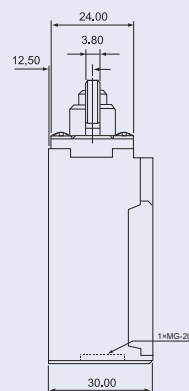
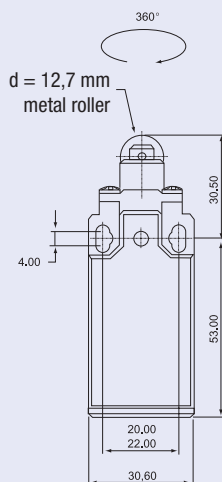
TRACON VP106



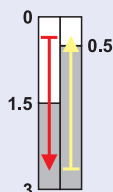
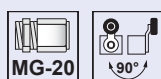
Version with roller bumper



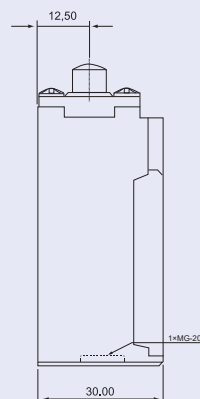
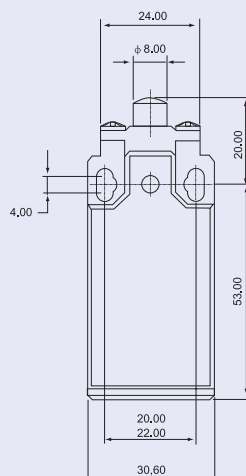
TRACON VP102



Version with cone bumper

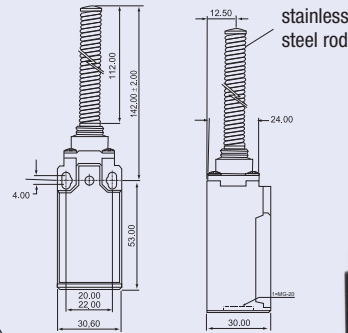
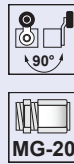
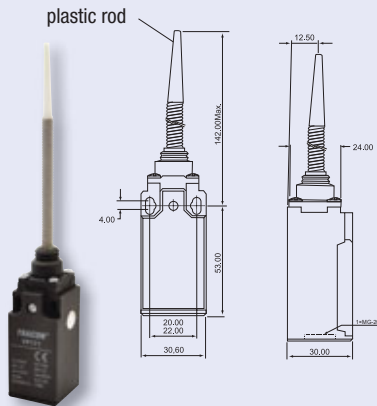


TRACON VP110



Version with twisting arm

Version with roller bumper



Operating distance (mm)

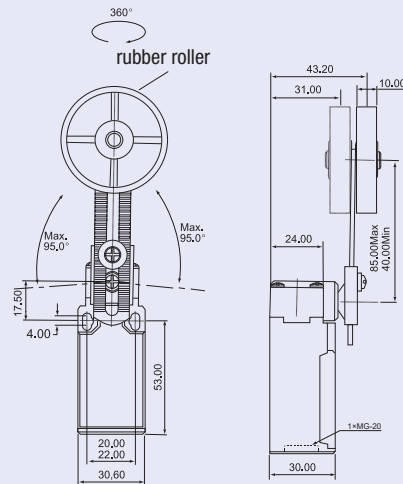
TRACON VP171

TRACON VP181

Version with spring stick

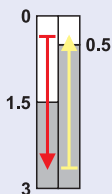


Operating distance (°)

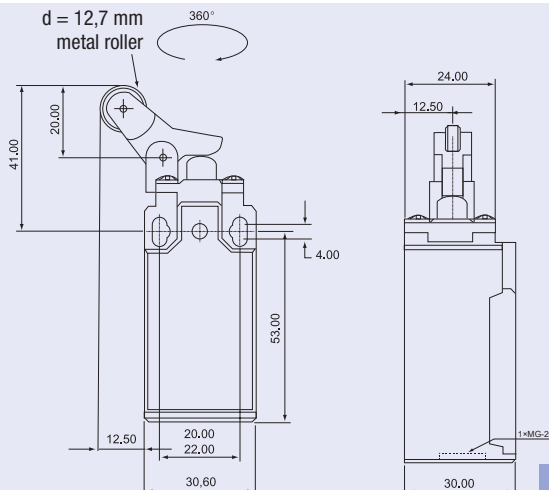


TRACON VP191

Version with cone bumper



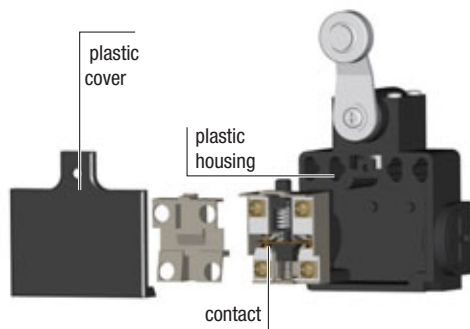
Operating distance (mm)



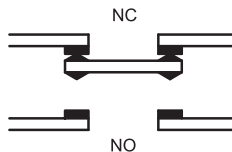
TRACON VP127

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 12, 230 V) 0,3 A	U_i 500 V	mm² 0,75-1,5	×10⁷ ×1.800	ON-OFF-ON... sc/h ×1.800	T_a -25...+55°C	IP 65
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Type of contact: Za

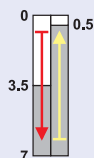


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EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

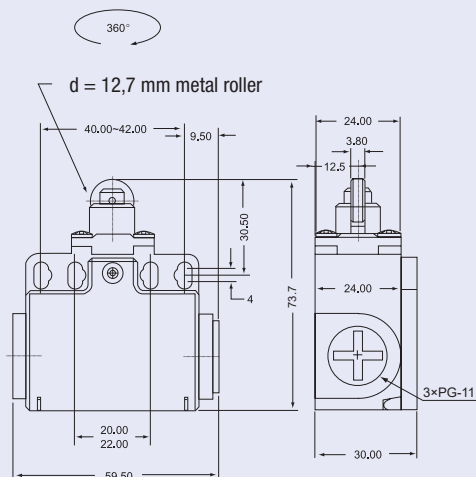
- double contacts
- strong plastic cover
- massive construction
- precise switching
- long lifetime

Version with roller bumper

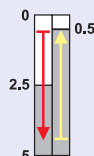


Operating distance (mm)

TRACON VT102

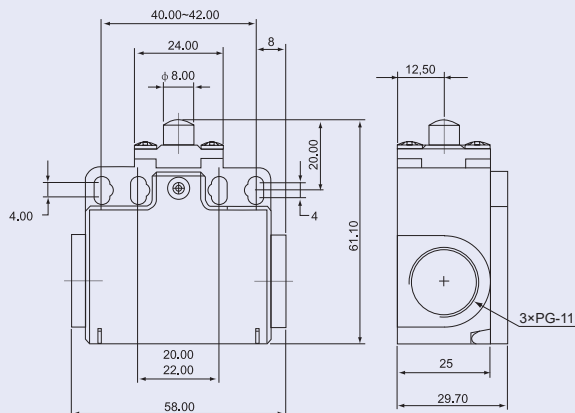


Version with cone bumper

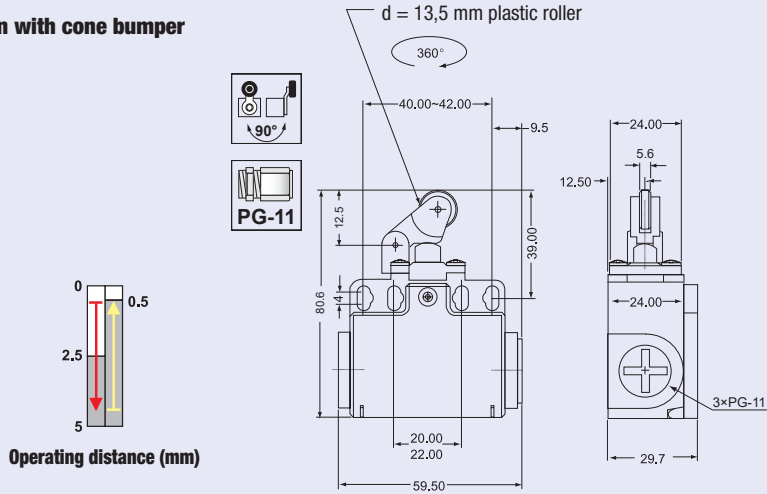


Operating distance (mm)

TRACON VT110

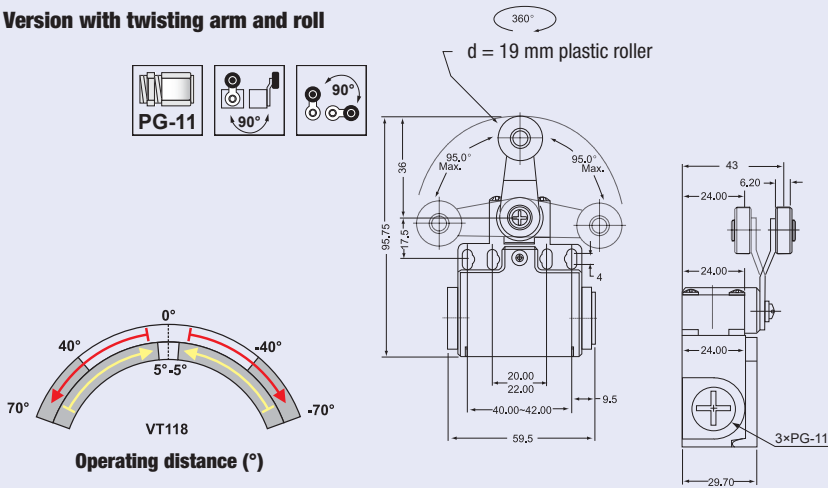


Version with cone bumper



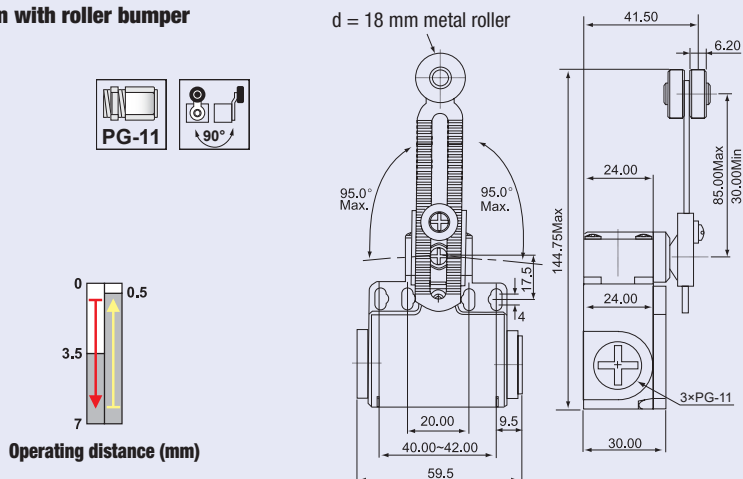
TRACON VT121

Version with twisting arm and roll



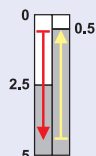
TRACON VT118

Version with roller bumper



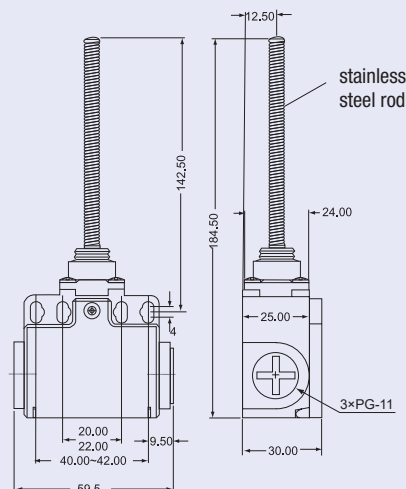
TRACON VT145

Version with cone bumper

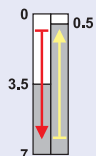


Operating distance (mm)

TRACON VT181

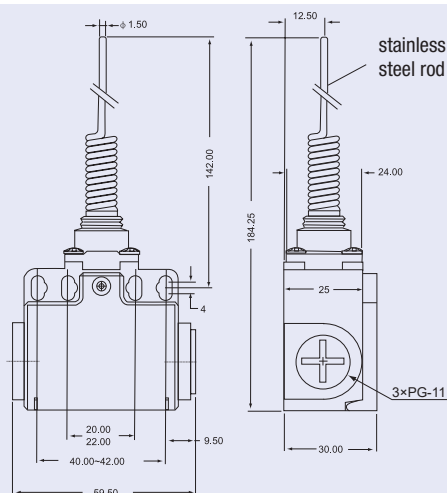


Version with roller bumper

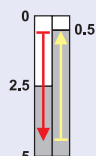


Operating distance (mm)

TRACON VT106

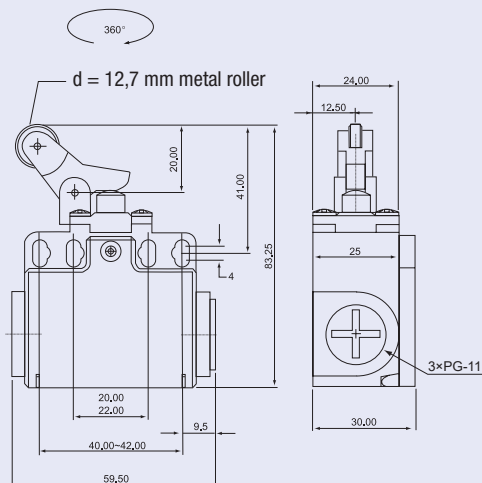


Version with cone bumper

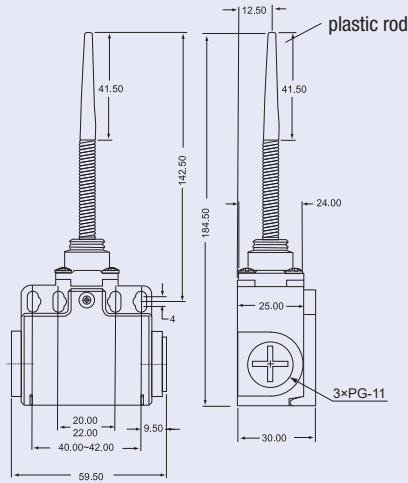
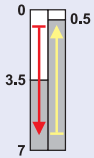
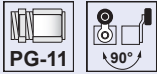


Operating distance (mm)

TRACON VT127

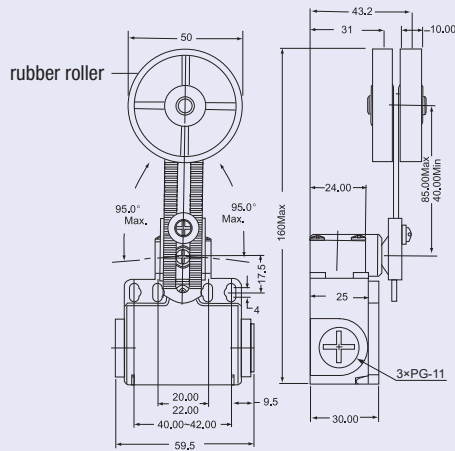
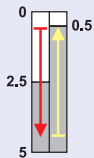
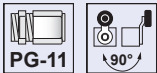


Version with roller bumper



TRACON VT171

Version with cone bumper



TRACON VT191

LED PANELS

Wall and recessed mount types

From 6 W to 48 W

For household and office use

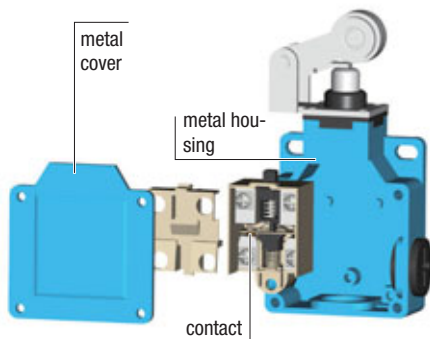
TRACON
ELECTRIC®

E1/33

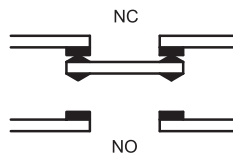


VM limit switches

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 12, 230 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

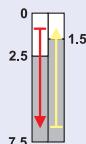
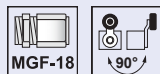


- double contacts
- strong metal cover
- massive construction
- water- and oilproof
- long lifetime
- easy wiring

RELEVANT STANDARD
EN 60947-1

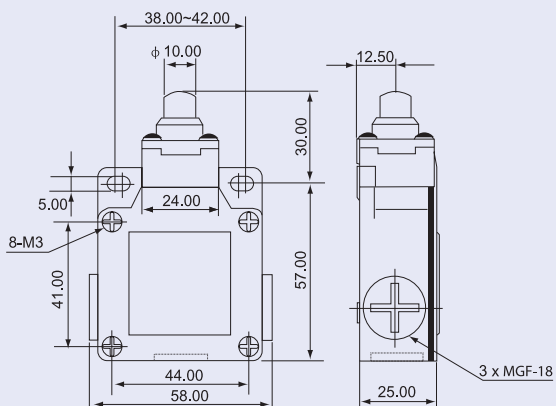
RELEVANT STANDARD
EN 60947-5-1

Version with cone bumper

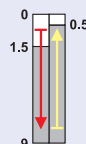
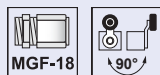


Operating distance (mm)

TRACON VM110

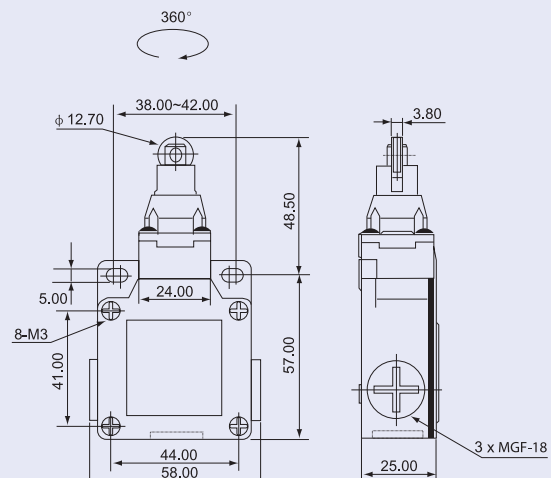


Version with roller bumper

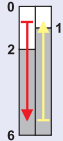
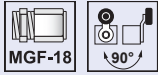


Operating distance (mm)

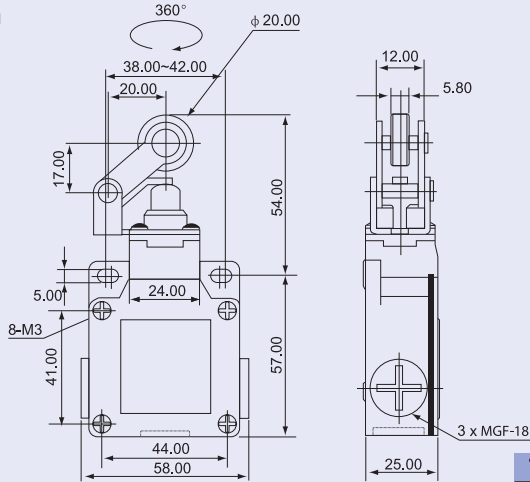
TRACON VM102



Version with roller bumper on arm

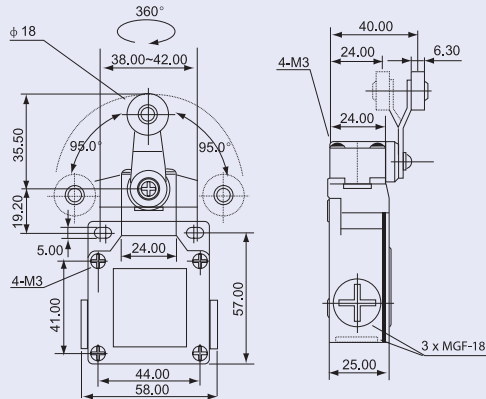
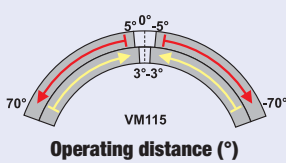
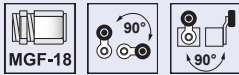


Operating distance (mm)



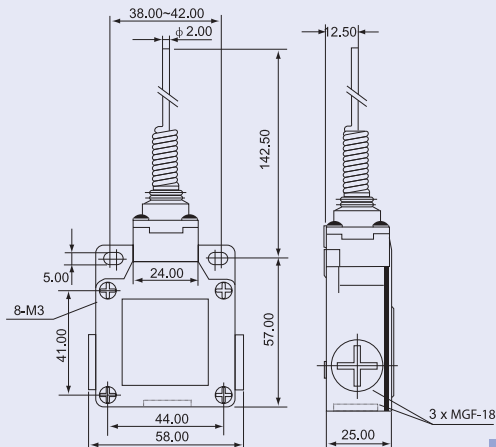
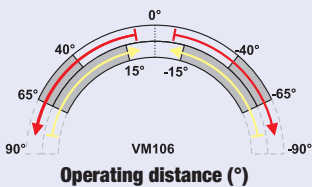
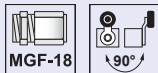
TRACON VM121

Version with twisting arm



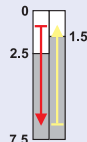
TRACON VM115

Version with spring stick



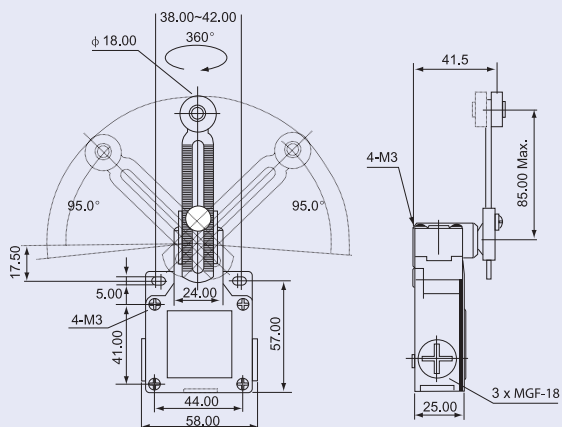
TRACON VM106

Version with cone bumper

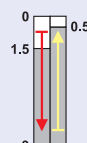


Operating distance (mm)

TRACON VM145

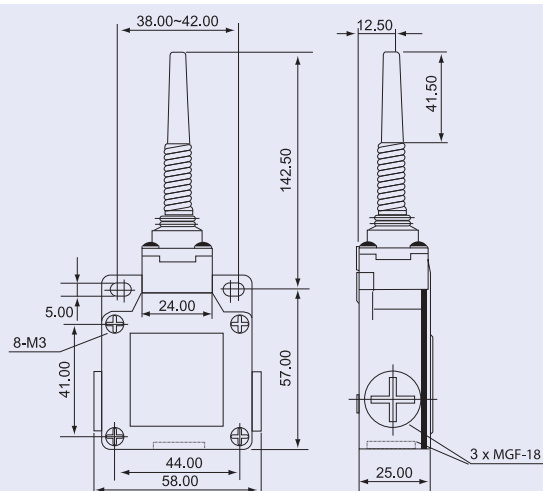


Version with roller bumper

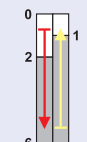


Operating distance (mm)

TRACON VM171

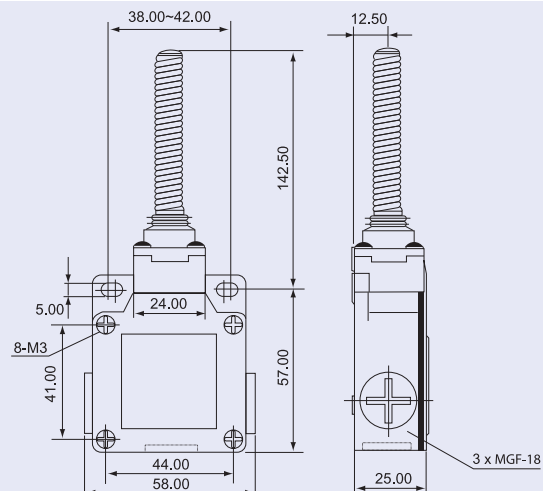


Version with roller bumper on arm



Operating distance (mm)

TRACON VM181

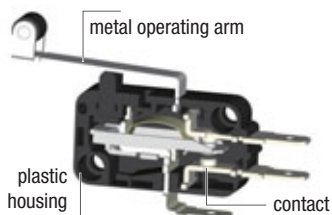


PORTABLE CONNECTION BOX

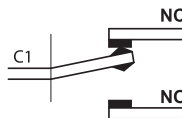


KW limit switches (micro switches)

I_{th} 10 A	I_e (AC 1, 230 V) 5 A	I_e (AC 15, 230 V) 2 A	I_e (DC 12, 250 V) 0,3 A	U_i 500 V	mm² 0,75-1,5	ON-OFF-ON... sc/h x600	T_a -25...+80°C	IP 00
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Type of contact: C



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EN 60947-1

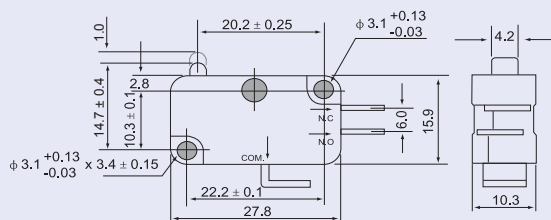
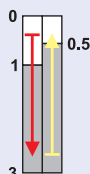
RELEVANT STANDARD
EN 60947-5-1

Version with bumper



TRACON

KW3-01	6,3×0,8 mm
KW3-05	4,8×0,8 mm

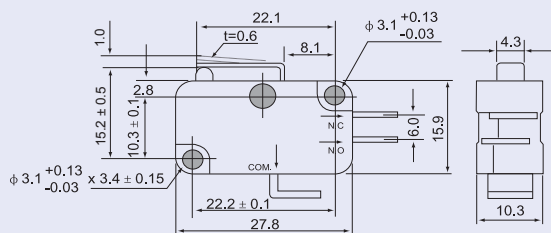
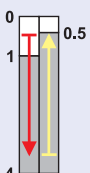


Version with spring handle



TRACON

KW3-11	6,3×0,8 mm
KW3-15	4,8×0,8 mm

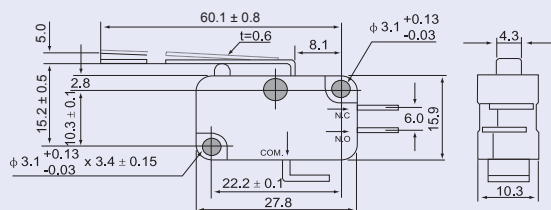
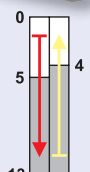


Version with spring handle

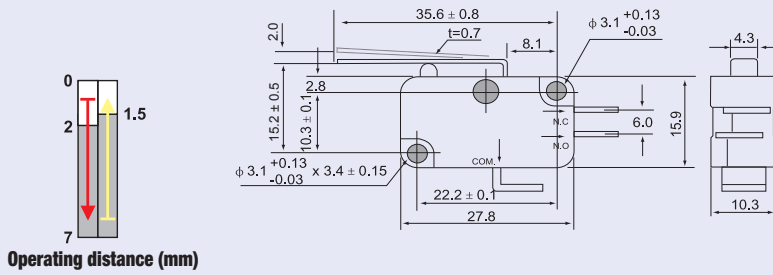


TRACON

KW3-21	6,3×0,8 mm
KW3-25	4,8×0,8 mm



Version with spring handle



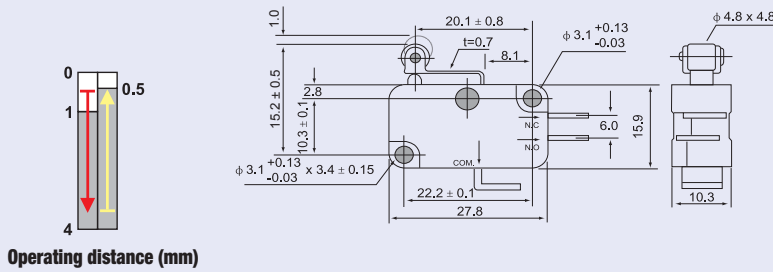
TRACON



KW3-31 6,3×0,8 mm

KW3-35 4,8×0,8 mm

Version with spring handle and roll



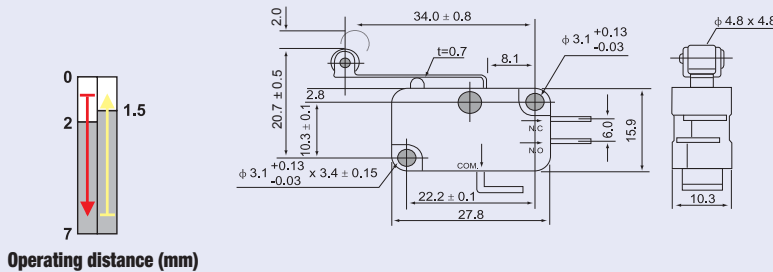
TRACON



KW3-41 6,3×0,8 mm

KW3-45 4,8×0,8 mm

Version with spring handle and roll



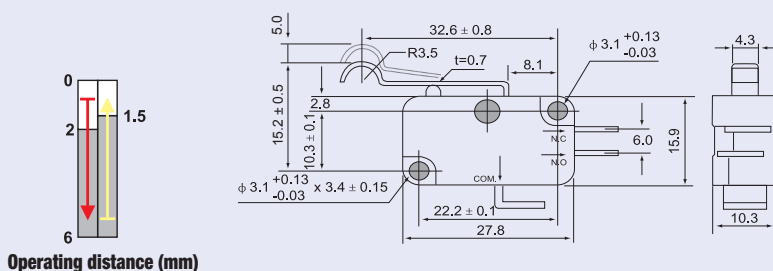
TRACON



KW3-51 6,3×0,8 mm

KW3-55 4,8×0,8 mm

Version with spring handle



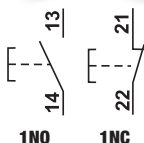
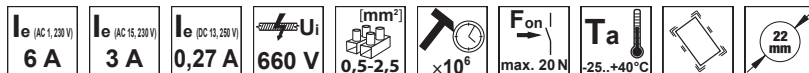
TRACON



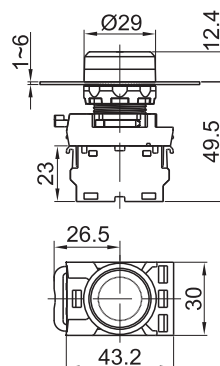
KW3-61 6,3×0,8 mm

KW3-65 4,8×0,8 mm

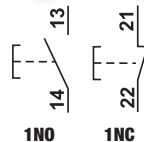
Pushbuttons, basic



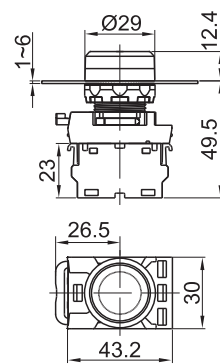
TRACON		
NYG3-BK		1 × NO
NYG3-G		1 × NO
NYG3-W		1 × NO
NYG3-Y		1 × NO
NYG3-B		1 × NO
NYG3-R		1 × NC
RELEVANT STANDARD EN 60947-1		page K/32
RELEVANT STANDARD EN 60947-5-1		



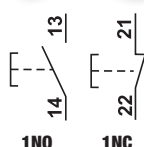
Push-switches, basic



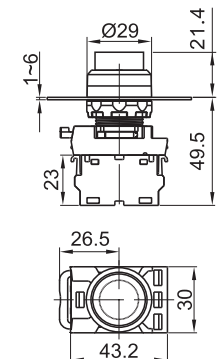
TRACON		
NYK3-BK		1 × NO
NYK3-G		1 × NO
NYK3-W		1 × NO
NYK3-Y		1 × NO
NYK3-B		1 × NO
NYK3-R		1 × NC
RELEVANT STANDARD EN 60947-1		page K/32
RELEVANT STANDARD EN 60947-5-1		



Pushbuttons, protruding



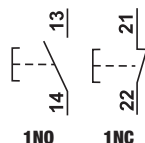
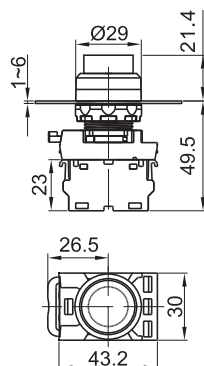
TRACON		
NYG3-HBK		1 × NO
NYG3-HG		1 × NO
NYG3-HW		1 × NO
NYG3-HY		1 × NO
NYG3-HB		1 × NO
NYG3-HR		1 × NC
RELEVANT STANDARD EN 60947-1		page K/32
RELEVANT STANDARD EN 60947-5-1		



Push-switches, protruding



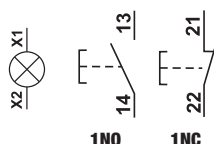
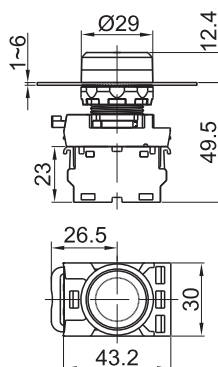
TRACON			IP 42		IP42		NC NO	
NYK3-HBK							1 × NO	
NYK3-HG							1 × NO	
NYK3-HW							1 × NO	
NYK3-HY							1 × NO	
NYK3-HB							1 × NO	
NYK3-HR							1 × NC	
RELEVANT STANDARD			EN 60947-1		RELEVANT STANDARD		EN 60947-5-1	



Pushbuttons with light



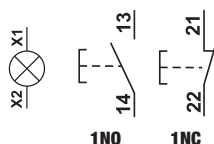
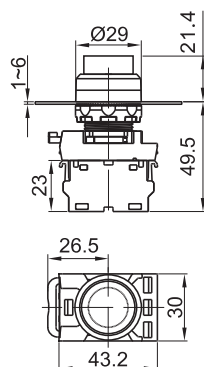
TRACON			IP 65		IP65		NC NO	
NYG3-LG							1 × NO	
NYG3-LW							1 × NO	
NYG3-LY							1 × NO	
NYG3-LB							1 × NO	
NYG3-LR							1 × NC	
NYG3-HLG*							1 × NO	
NYG3-HLW*							1 × NO	
NYG3-HLY*							1 × NO	
NYG3-HLB*							1 × NO	
NYG3-HLR*							1 × NC	
RELEVANT STANDARD			EN 60947-1		RELEVANT STANDARD		EN 60947-5-1	



* Protruding versions



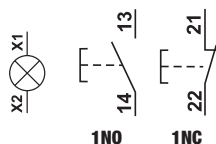
K/32



Push-switches with light



NYK3-L..



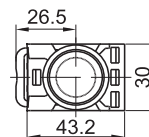
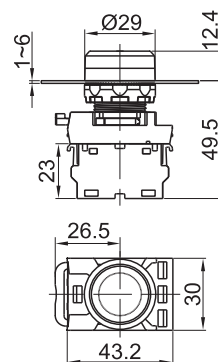
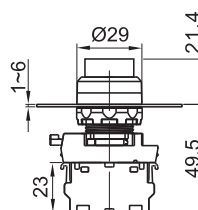
NYK3-H..

TRACON			
IP 65	IP65	NC	NO
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	

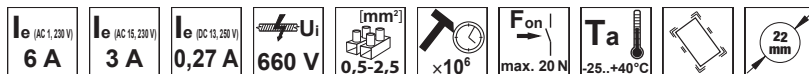
* Protruding versions (IP42)

RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1



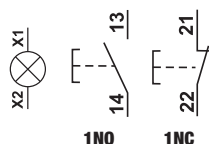
Pushbuttons with signal



NYG3-P..

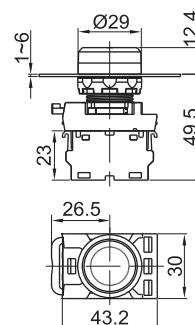


NYG3-P..L



TRACON			
IP 65	IP65	NC	NO
NYG3-P1	—	1 × NO	
NYG3-P4	→	1 × NO	
NYG3-P3	→	1 × NO	
NYG3-P2	0	1 × NC	
NYG3-P1L	—	1 × NO	
NYG3-P4L	→	1 × NO	
NYG3-P3L	→	1 × NO	
NYG3-P2L	0	1 × NC	

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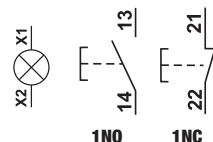
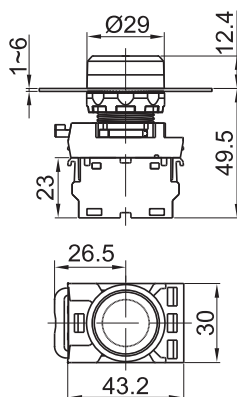


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Push-switches with signal



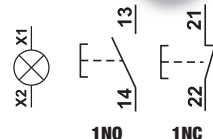
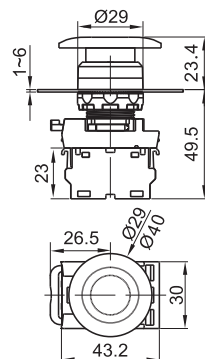
TRACON			
	IP 65		IP 65
NYK3-P1	I	page K/32	1 x NO
NYK3-P4	→		1 x NO
NYK3-P3	→		1 x NO
NYK3-P2	0		1 x NC
NYK3-P1L	I		1 x NO
NYK3-P4L	→		1 x NO
NYK3-P3L	→		1 x NO
NYK3-P2L	0		1 x NC
RELEVANT STANDARD EN 60947-1		RELEVANT STANDARD EN 60947-5-1	



Pushbuttons with mushroom head



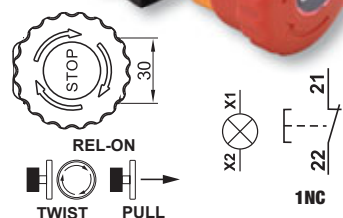
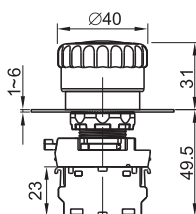
TRACON			
	IP 65		IP 65
NYG3-MBK		page K/32	1 x NO
NYG3-MG			1 x NO
NYG3-MY			1 x NO
NYG3-MB			1 x NO
NYG3-MR			1 x NC
NYG3-MLG			1 x NO
NYG3-MLY			1 x NO
NYG3-MLB			1 x NO
NYG3-MLR			1 x NC
RELEVANT STANDARD EN 60947-1		RELEVANT STANDARD EN 60947-5-1	



Emergency pushbutton, twist release



TRACON			
	IP 65		IP 65
NYG3-ETR		page K/32	1 x NC
NYG3-ETLR	STOP		1 x NC
RELEVANT STANDARD EN 60947-1		RELEVANT STANDARD EN 60947-5-1	



Double ON-OFF switches

Pictograms

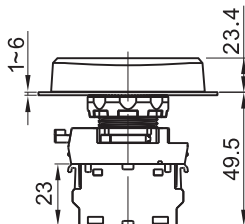
K/0



TRACON
 IP 65
 IP65
 NC NO

NYG3-D			1×NO+1×NC
NYG3-D1	I	O	1×NO+1×NC
NYG3-D2	ON	OFF	1×NO+1×NC
NYG3-DL			1×NO+1×NC
NYG3-DL1	I	O	1×NO+1×NC
NYG3-DL2	ON	OFF	1×NO+1×NC

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RELEVANT STANDARD EN 60947-1

RELEVANT STANDARD EN 60947-5-1

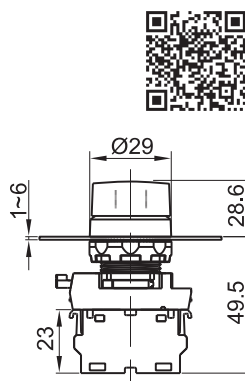
Knob switches



TRACON
 IP 65
 IP65
 NC NO

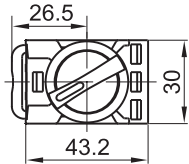
Normal	NYK3-S21BK	1×NO+1×NC
	NYK3-S31BK	2×NO
	NYK3-S24BK	1×NO+1×NC
With spring return	NYK3-S32BK	2×NO
	NYK3-S33BK	2×NO
	NYK3-S34BK	2×NO

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RELEVANT STANDARD EN 60947-1

RELEVANT STANDARD EN 60947-5-1

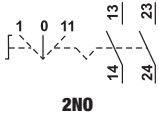
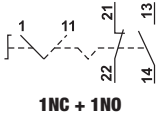
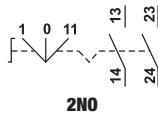


Two position normal

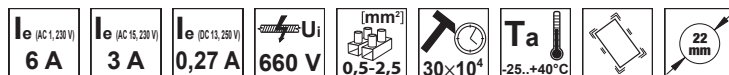
Three position normal

Two position with spring return

Three position with spring return

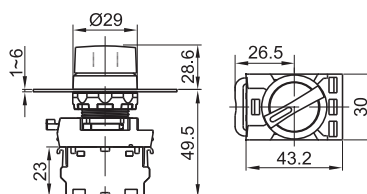
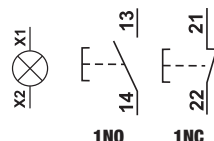
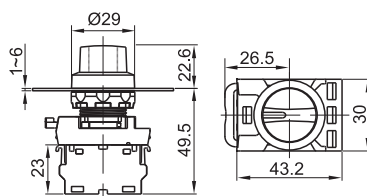


Knob handle switches with light

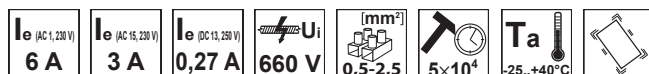


NYK3-SL21R		1xNO+1xNC
NYK3-SL21G		1xNO+1xNC
NYK3-SL21Y		1xNO+1xNC
NYK3-SL21B		1xNO+1xNC
NYK3-SL24R		1xNO+1xNC
NYK3-SL24G		1xNO+1xNC
NYK3-SL24Y		1xNO+1xNC
NYK3-SL24B		1xNO+1xNC
NYK3-SL31R		1xNO+1xNC
NYK3-SL31G		1xNO+1xNC
NYK3-SL31Y		1xNO+1xNC
NYK3-SL31B		1xNO+1xNC
NYK3-SL34R		1xNO+1xNC
NYK3-SL34G		1xNO+1xNC
NYK3-SL34Y		1xNO+1xNC
NYK3-SL34B		1xNO+1xNC

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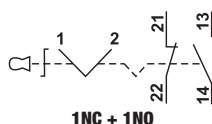
Key switches



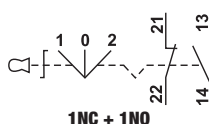
Normal	NYK3-K21		1xNO+1xNC	
	NYK3-K31		1xNO+1xNC	
With spring return	NYK3-K24		1xNO+1xNC	
	NYK3-K34		1xNO+1xNC	

page
K/32

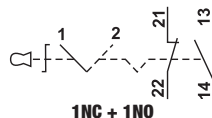
Two position normal



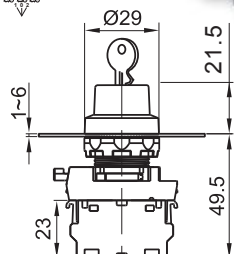
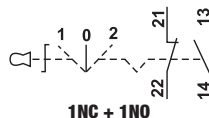
Three position normal



Two position with spring return



Three position with spring return



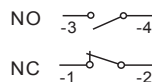
RELEVANT STANDARD
EN 60947-1
EN 60947-5-1

Contact units

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 230 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	x10⁶ x10⁶	T_a -25...+40°C	
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TRACON		
NYG3-CE1		1 x NO
NYG3-CE2		1 x NC

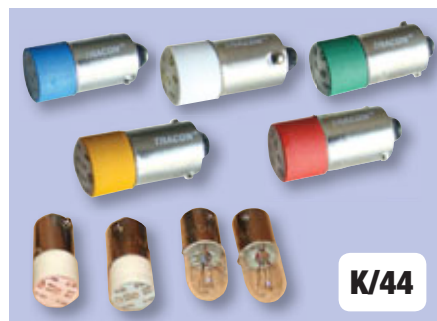
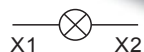


Lighting unit



U_i 660 V	[mm²] 0,5-2,5	T_a -25...+40°C	
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TRACON		
NYG3-SOC		Ba9s



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Protection covers

T_a -25...+40°C		IP 65	rh max. 90	22 mm
--	--	------------------------	-----------------------------	--------------



TRACON		
		L x W x H (mm)
NYGD-1GR		70 x 90 x 65
NYGD-1YE		70 x 90 x 65
NYGD-2GR		70 x 127 x 65
NYGD-2YE		70 x 127 x 65
NYGD-3GR		70 x 167 x 65
NYGD-3YE		70 x 167 x 65

TRACON		
		L x W x H (mm)
NYGD-4GR		70 x 207 x 65
NYGD-4YE		70 x 207 x 65
NYGD-5GR		70 x 247 x 65
NYGD-5YE		70 x 247 x 65
NYGD-6GR		70 x 287 x 65
NYGD-6YE		70 x 287 x 65



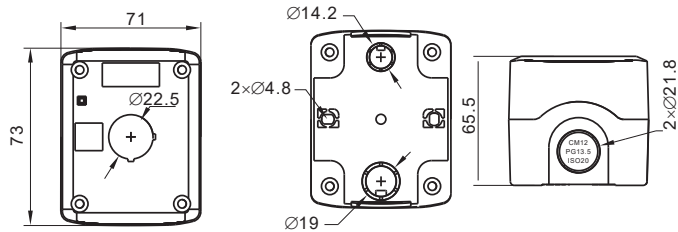
NYGD-1GR



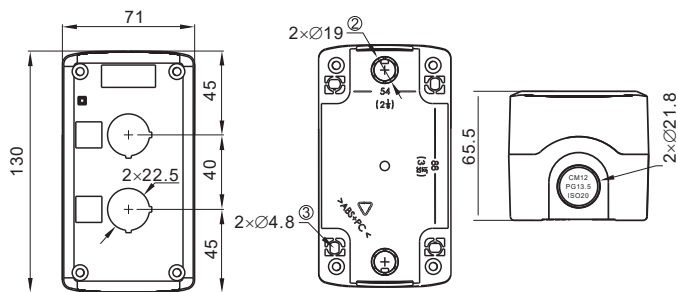
NYGD-2YE



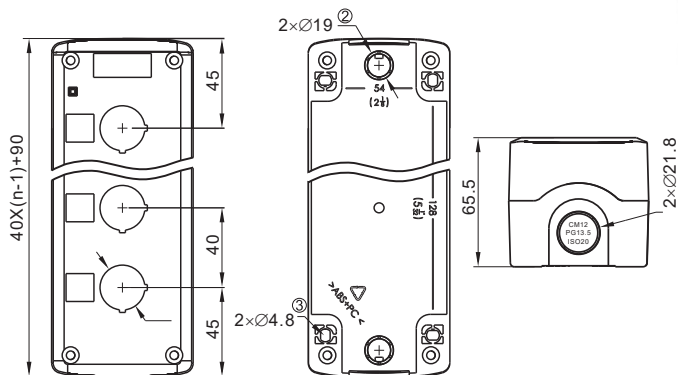
NYGD-3GR



NYGD-4YE



NYGD-5GR



NYGD-6YE



Accessories

TRACON 	
NYG3-CAP	Protective cap, d=22mm; h=16mm; SILICA GEL
NYG3-CAPH	Protective cap, d=22mm; h=22mm; SILICA GEL
NYG3-LHB	Label holder (snap from the back), 25×10mm; ABS
NYG3-LHBH	Label holder (snap from the back), 25×17mm; ABS
NYG3-LHS	Label holder (push from side), 25×10mm; ABS
NYG3-LHSH	Label holder (push from side), 25×17mm; ABS
NYG3-BLP	Blanking plug, d=22mm; ABS
NYGR25/22	Reduction ring, D=25/d=22mm; ABS
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)
NYG3-SCAP	Sealable cap, D=30mm/d=22mm; h=20mm; POLYCARBONATE
NYG3-LCAP	Padlockable cap, D=50mm/d=22mm; h=32mm; POLYCARBONATE
NYG3-ES60	EMERGENCY STOP plate, d=60mm; h=2mm; ABS
NYG3-ES90	EMERGENCY STOP plate, d=90mm; h=2mm; ABS
NYG3-P30	Protective collar, d=30; h=30mm; ABS
NYG3-PH30	Protective collar, d=30; h=28mm; ABS
NYG3-P60	Protective collar, d=60mm; h=30mm; ABS
NYGD-FR	Fastening ring to NYGD-..., d=22mm; ABS
NYG3-ES60H	EMERGENCY STOP plate, d=60mm, h=8mm, ABS
NYG3-PH65	Protectiv collar, W=65mm, H=80mm, D=38mm, ABS


NYG3-CAP

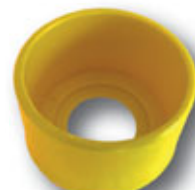
NYG3-LH

NYG3-BLP

NYGR25/22

NYG3-SCAP

NYG3-LCAP

NYG3-ES..

NYP3-P..

NYG3-PH30

NYGD-FR

NYG3-PH65

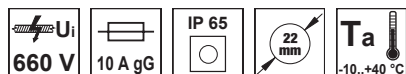
NYGR3..

SCAN THE QR CODE!

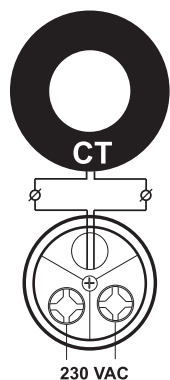
- Check our new products
- Be updated

Our range of products is continuously and quickly expanding. Our catalogue shows our products as of April 2019. Check our website to stay up-to-date.

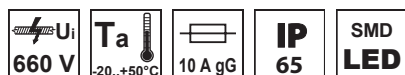
Voltage meter, Ammeter, Buzzer



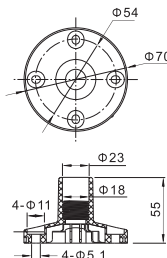
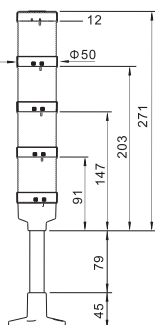
TRACON			U _m	I _m		
NYG3-VR	V AC	LED	24-500 V AC	—	—	
NYG3-VG		LED	24-500 V AC	—	—	
NYG3-VY		LED	24-500 V AC	—	—	
NYG3-AR	A AC	LED	—	1-100 A	—	
NYG3-AG		LED	—	1-100 A	—	
NYG3-AY		LED	—	1-100 A	—	
NYG3-BFR230	—	LED, blink	230 V AC	—	✓	
NYG3-BFR24	—	LED, blink	24 V AC/DC	—	✓	



LED Warning Lamp Vertical Base



TRACON		U _m					
NYG3-50RYG	AC 230 V				—	—	X
NYG3-50RYGB	AC 230 V				—	—	X
NYG3-50RYGBW	AC 230 V				—	—	X
NYG3-50RYGM	AC/DC 24 V				—	—	✓
NYG3-50RYGBM	AC/DC 24 V				—	—	✓
NYG3-50RYGBWM	AC/DC 24 V				—	—	✓



NYG3-50RYG NYG3-50RYGB NYG3-50RYGBW

LJL type LED signal lamps



Pictograms

K/0

Ø 16 mm versions

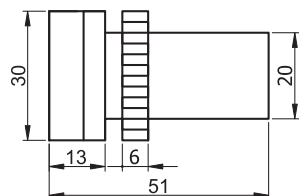
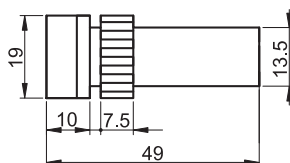
TRACON		Um
LJL16-RA		12 V AC/DC
LJL16-RC		24 V AC/DC
LJL16-RD		48 V AC/DC
LJL16-RE		230 V AC/DC
LJL16-RF		400 V AC
LJL16-GA		12 V AC/DC
LJL16-GC		24 V AC/DC
LJL16-GD		48 V AC/DC
LJL16-GE		230 V AC/DC
LJL16-GF		400 V AC
LJL16-YA		12 V AC/DC
LJL16-YC		24 V AC/DC
LJL16-YD		48 V AC/DC
LJL16-YE		230 V AC/DC
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/DC
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/DC
LJL16-BF		400 V AC

Ø 22 mm versions

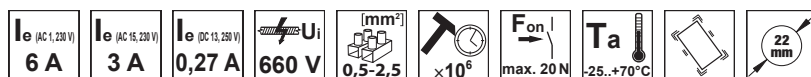
TRACON			Um	
IP 65				
LJL22-RA	LJL22-RAT		12 V AC/DC	
LJL22-RC	LJL22-RCT		24 V AC/DC	
LJL22-RD	LJL22-RDT		48 V AC/DC	
LJL22-RE	LJL22-RET		230 V AC/DC	
LJL22-RF	LJL22-RFT		400 V AC	
LJL22-GA	LJL22-GAT		12 V AC/DC	
LJL22-GC	LJL22-GCT		24 V AC/DC	
LJL22-GD	LJL22-GDT		48 V AC/DC	
LJL22-GE	LJL22-GET		230 V AC/DC	
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/DC	
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/DC	
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/DC	
LJL22-BF	LJL22-BFT		400 V AC	

NYGD-1GR

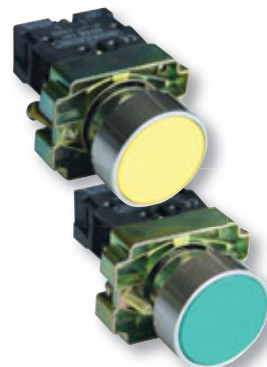
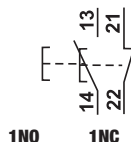
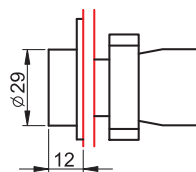
page
K/32



Simple pushbuttons



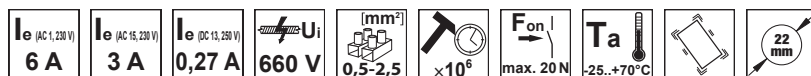
TRACON			
	IP 42		
	IP 65		
NYGBA21	NYGBA21T		1 × NO
NYGBA31Z	NYGBA31ZT		1 × NO
NYGBA51S	NYGBA51ST		1 × NO
NYGBA61K	NYGBA61KT		1 × NO
NYGBA42P	NYGBA42PT		1 × NC



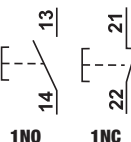
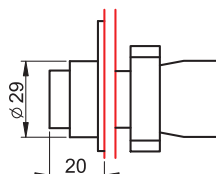
RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

Projecting pushbuttons



TRACON			
	IP 42		
	IP 65		
NYGBL21	NYGBL21T		1 × NO
NYGBL31Z	NYGBL31ZT		1 × NO
NYGBL51S	NYGBL51ST		1 × NO
NYGBL61K	NYGBL61KT		1 × NO
NYGBL42P	NYGBL42PT		1 × NC



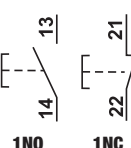
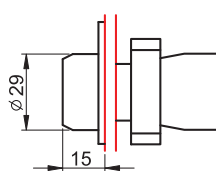
RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

Pushbuttons with rubber boot



TRACON			
	IP 55		
	IP 65		
NYGBP21	NYGBP21T		1 × NO
NYGBP31Z	NYGBP31ZT		1 × NO
NYGBP51S	NYGBP51ST		1 × NO
NYGBP61K	NYGBP61KT		1 × NO
NYGBP42P	NYGBP42PT		1 × NC



RELEVANT STANDARD
EN 60947-1

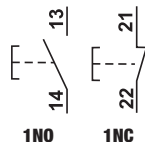
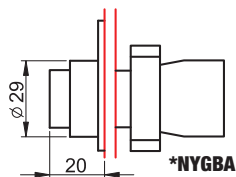
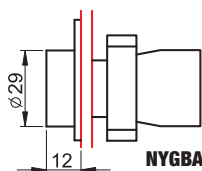
RELEVANT STANDARD
EN 60947-5-1

Pushbuttons with symbols

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 230 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	x10⁶ x10⁶	F_{on} max. 20 N	T_a -25...+70°C	22 mm	Pictograms	K/O
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TRACON					
	IP 42		IP 65		
NYGBA3351	NYGBA3351T			NYGD-1GR	1 × NO
NYGBA3341	NYGBA3341T				1 × NO
NYGBA3311Z	NYGBA3311ZT			page	1 × NO
NYGBA4222P	NYGBA4222PT			K/32	1 × NC
NYGBA4322P*	NYGBA4322PT*				1 × NC

* Protruding versions

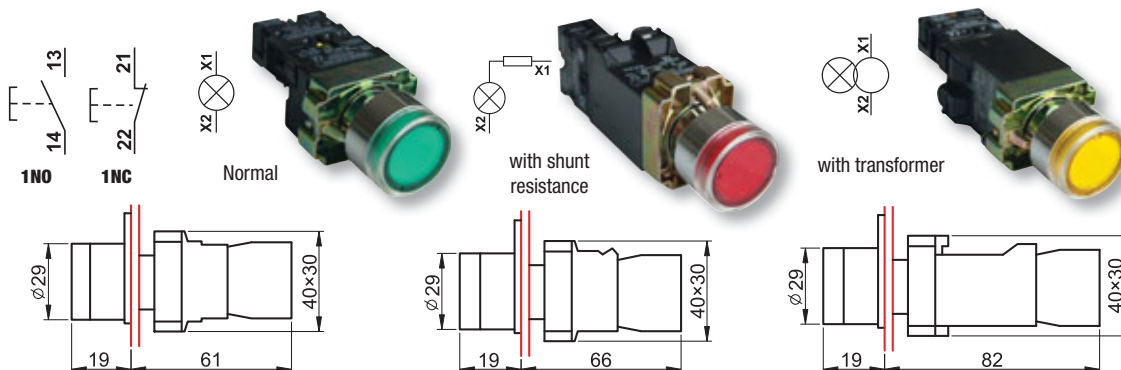


Pushbuttons with built-in signal light (Ba9s)

TRACON							
	IP 42		IP 65			U_m	
	NYGBW33Z	NYGBW33ZT		NYGD-1GR	1 × NO	max. 400 V	NYGI230*
	NYGBW33S	NYGBW33ST		page	1 × NO	max. 400 V	NYGI230*
	NYGBW33K	NYGBW33KT		K/32	1 × NO	max. 400 V	NYGI230*
	NYGBW33P	NYGBW33PT			1 × NC	max. 400 V	NYGI230*
	NYGBW3371Z	NYGBW3371ZT		NYGD-1GR	1 × NO	230-240 V	NYGI130**
	NYGBW3571S	NYGBW3571ST		page	1 × NO	230-240 V	NYGI130**
	NYGBW3471P	NYGBW3471PT		K/32	1 × NC	230-240 V	NYGI130**
	NYGBW3441Z	-			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!

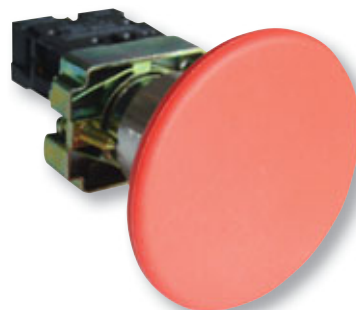
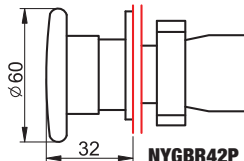
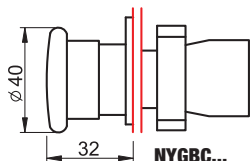
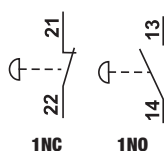
** Signal lamps with ballast are operated under 130 V, by versions with transformer the operating voltage is 6 V.



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	mm^2 0,5-2,5	$\times 10^6$	F_{on} max. 20 N	T_a -25...+70°C			K/O
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TRACON					
NYGBC21	NYGBC21T	-		NYGD-1GR page K/32	1 × NO
NYGBC31Z	NYGBC31ZT	-			1 × NO
NYGBC51S	NYGBC51ST	-			1 × NO
NYGBC61K	NYGBC61KT	-			1 × NO
NYGBC42P	NYGBC42PT	NYGBC42PTS		NYGD-1YE page K/32	1 × NC
NYGBR42P	NYGBR42PT	NYGBR42PTS			1 × NC



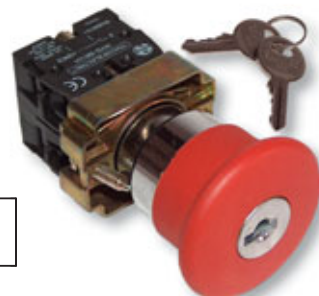
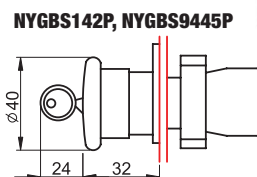
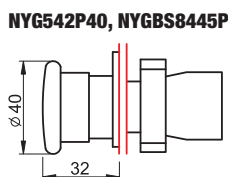
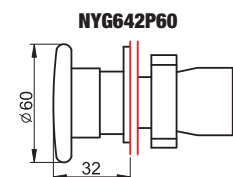
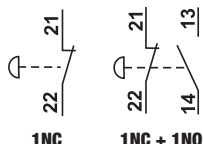
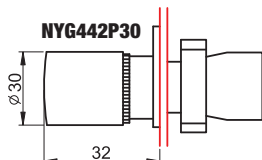
RELEVANT STANDARD
EN 60947-1

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	mm^2 0,5-2,5	$\times 10^6$	F_{on} max. 20 N	F_{off} max. 15 N	T_a -25...+70°C			K/O
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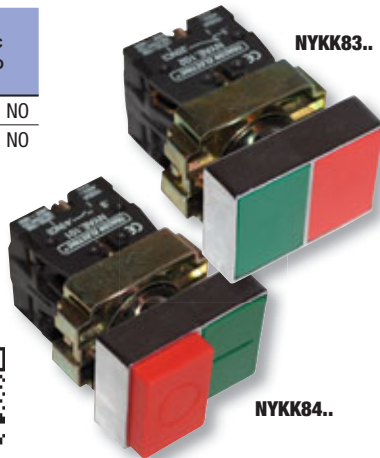
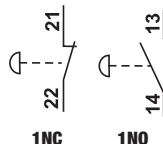
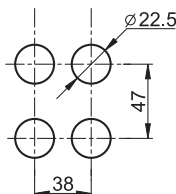
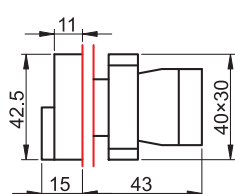
TRACON					
NYG442P30	NYG442P30T	NYG442P30TS		NYGD-1GR NYGD-1YE page K/32	1 × NC 30 mm
NYG542P40	NYG542P40T	NYG542P40TS			1 × NC 40 mm
NYG642P60	NYG642P60T	NYG642P60TS			1 × NC 60 mm
NYGBS8445P	NYGBS8445PT	NYGBS8445PTS			1 × NC + 1 × NO 40 mm
NYGBS142P	NYGBS142PT	NYGBS142PTS			1 × NC 40 mm
NYGBS9445P	NYGBS9445PT	NYGBS9445PTS			1 × NC + 1 × NO 40 mm



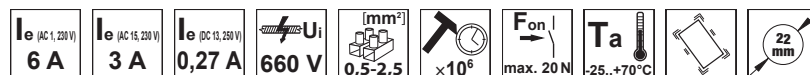
Double on-off pushbuttons



TRACON					
	IP 42		IP 65		NC NO
NYKK8325	NYKK8325T			NYGD-1GR	1 × NC+1 × NO
NYKK8425	NYKK8425T	I	0	page K/32	1 × NC+1 × NO



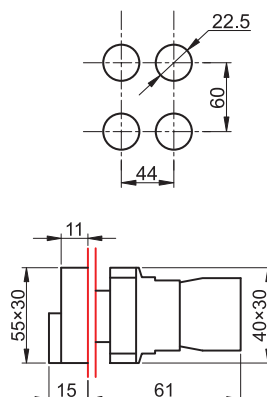
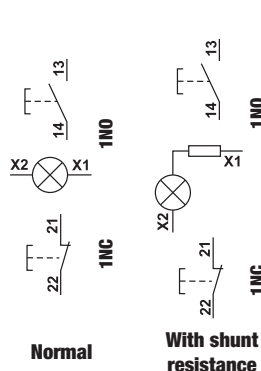
Double, on-off pushbuttons with pilot light (Ba9s)



TRACON				U _m			
	NYKK8365	I		0	1 × NC+1 × NO	max. 400 V	NYGI230*
	NYKK8465	I		0	1 × NC+1 × NO	max. 400 V	NYGI230*
	NYKK8375	I		0	1 × NC+1 × NO	240 V	NYGI130**
	NYKK8475	I		0*	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		U _m		IP65	
IP 42					
	NYGBV61	NYGBV61T		max. 400 V	NYGI230
	NYGBV64P	NYGBV64PT		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*

NYGD-1GR

page
K/32

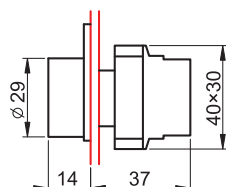
NYGD-1GR

page
K/32

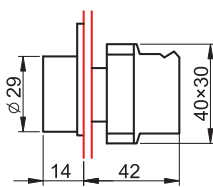
We deliver the signal lamps without light source.

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

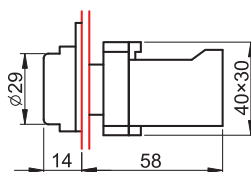
* Signal lamps with ballast are operated under 130 V, by versions with transformer the operating voltage is 6 V.



Normal



With shunt resistance



With transformer

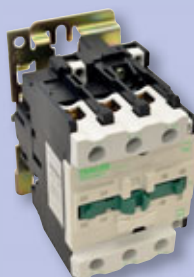


TÜV MEEI TEST DOCUMENTATION
V-15180

RELEVANT STANDARD
EN 62094

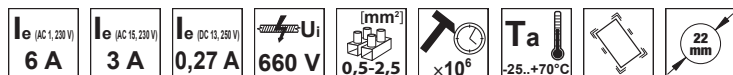


Contactors



I/32

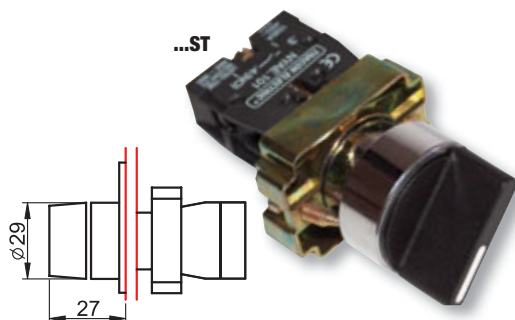
Selector switches



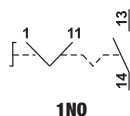
TRACON			IP 42		IP 65		NC NO		L	
Normal	NYBD21KST	NYBD21KSTT	1 2		1 2		1 × NO		29 mm	
	NYBJ21KLO	NYBJ21KLOT	1 2		1 2		1 × NO		39 mm	
	KBD25ST	KBD25STT	1 2		1 2		1 × NC+1 × NO		29 mm	
	KBJ25LO	KBJ25LOT	1 2		1 2		1 × NC+1 × NO		39 mm	
	NYBD33KST	NYBD33KSTT	1 2		1 2		2 × NO		29 mm	
With spring return	NYBJ33KLO	NYBJ33KLOT	1 2		1 2		2 × NO		39 mm	
	NYBD41KST	NYBD41KSTT	1 2		1 2		1 × NO		29 mm	
	NYBJ41KLO	NYBJ41KLOT	1 2		1 2		1 × NO		39 mm	
	NYBD45KST	NYBD45KSTT	1 2		1 2		1 × NC+1 × NO		29 mm	
	NYBJ45KLO	NYBJ45KLOT	1 2		1 2		1 × NC+1 × NO		39 mm	
	NYBD53KST	NYBD53KSTT	1 2		1 2		2 × NO		29 mm	
	NYBJ53KLO	NYBJ53KLOT	1 2		1 2		2 × NO		39 mm	

NYGD-1GR

page
K/32



Two position normal

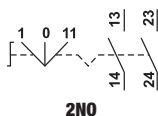


1NO



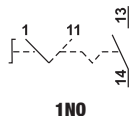
1NC + 1NO

Three position normal

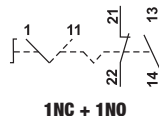


2NO

Two position with spring return

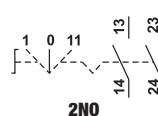


1NO



1NC + 1NO

Three position with spring return



2NO



Selector switches with built-in signal light (Ba9s)



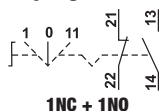
TRACON		IP 42		IP 65		NC NO		22 mm	
Normal		NYGBK2365Z		NYGBK2365ZT		1 × NC+1 × NO NYGLZ *			
		NYGBK2565S		NYGBK2565ST		1 × NC+1 × NO NYGLS *			
		NYGBK2665K		NYGBK2665KT		1 × NC+1 × NO NYGLK *			
		NYGBK2465P		NYGBK2465PT		1 × NC+1 × NO NYGLP *			
		NYGBK3365Z		NYGBK3365ZT		1 × NC+1 × NO NYGLZ *			
		NYGBK3565S		NYGBK3565ST		1 × NC+1 × NO NYGLS *			
		NYGBK3665K		NYGBK3665KT		1 × NC+1 × NO NYGLK *			
		NYGBK3465P		NYGBK3465PT		1 × NC+1 × NO NYGLP *			

* We deliver the signal lamps without light source.

RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

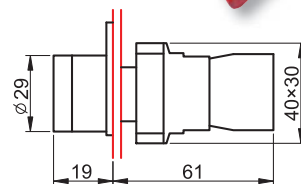
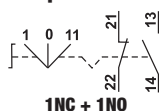
Three position with
spring return



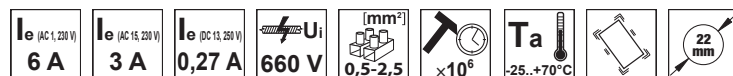
Two position normal



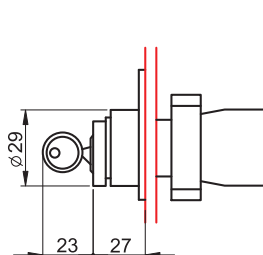
Three position normal



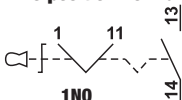
Key switches



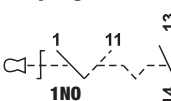
TRACON		IP 42		IP 65		NC NO		22 mm	
Normal		NYBG21KK		NYBG21KKT		1 × NO			
		NYBG41KK		NYBG41KKT		1 × NO			
		NYBG25KK		NYBG25KKT		1 × NC+1 × NO			
		NYBG53KK		NYBG53KKT		2 × NO			
		NYBG61KK		NYBG61KKT		1 × NO			
With spring return		NYBG65KK		NYBG65KKT		1 × NC+1 × NO			
		NYBG73KK		NYBG73KKT		2 × NO			



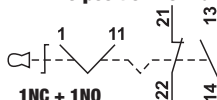
Two position normal



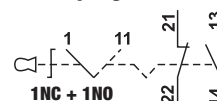
Two position with
spring return



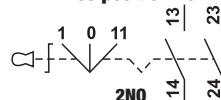
Two position normal



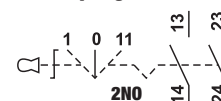
Two position with
spring return



Three position normal



Three position with
spring return



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 (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

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	
NYGR25/22	Reduction ring, D=25/d=22mm; ABS
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.



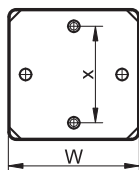
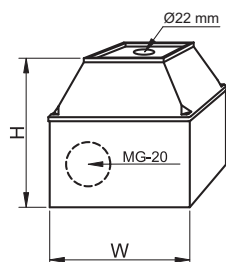
SCAN THE QR CODE!

- Check our new products
- Be updated

Our range of products is continuously and quickly expanding. Our catalogue shows our products as of April 2019.
Check our website to stay up-to-date.

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



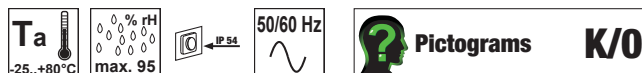
TÜV MEEI TEST DOCUMENTATION
V-15180

RELEVANT STANDARD
EN 60529

**IOS
ANDROID**

- Webshop and catalogue
- Continuous and daily sales
- Shop locator with map
- Barcode and QR code scanner
- Updated informations
- Online payment

Relay safety switches

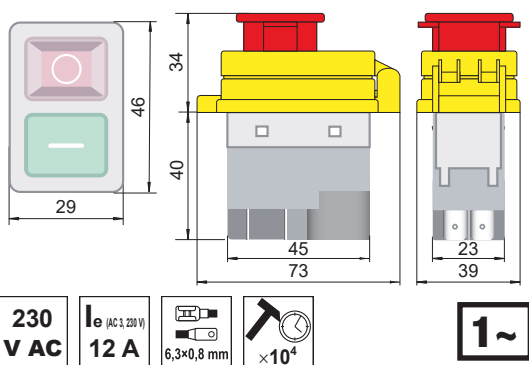
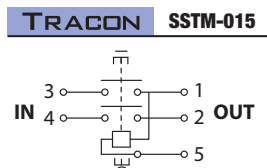
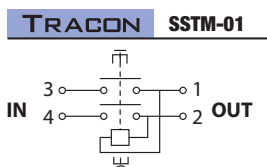


The SSTM type switches are appropriate for safe ON/OFF switching of various machine tools or electric devices, as they ensure automatic protection against unwanted start, when power supply returns after a network failure. The power failure relay is factory built-in, without own output contacts, the operating 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.

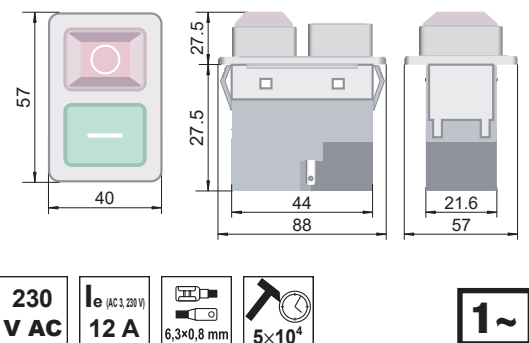
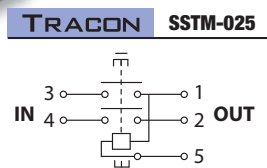
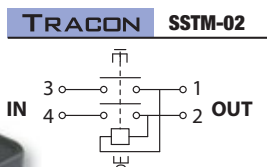
Attention! A device must be connected according to the diagram on the side of the housing.



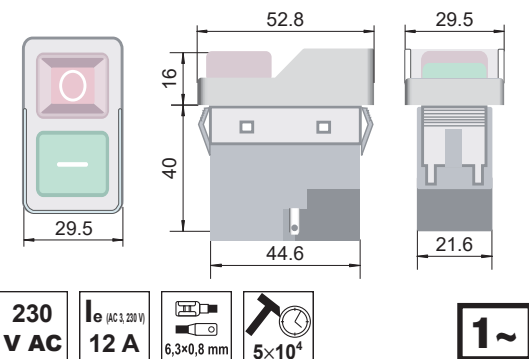
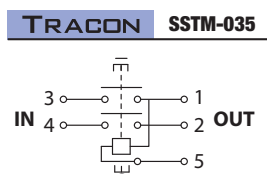
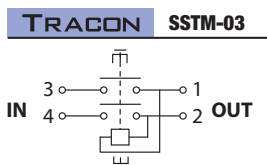
SSTM-01..

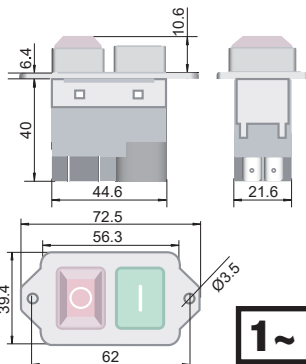
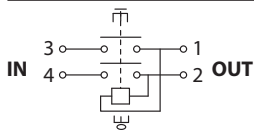
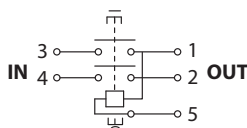
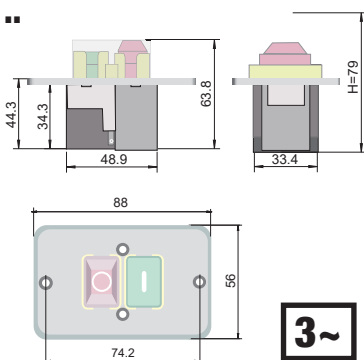
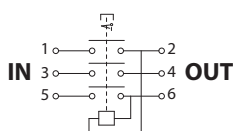
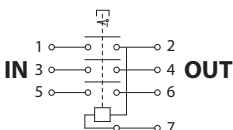
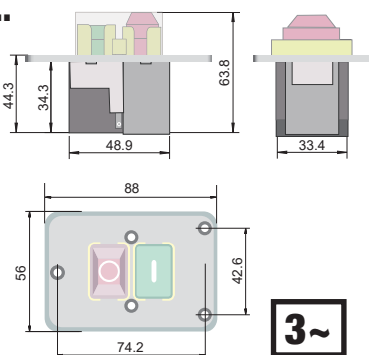
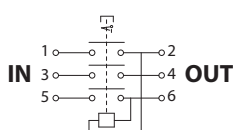
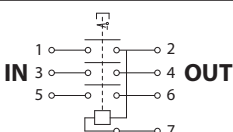
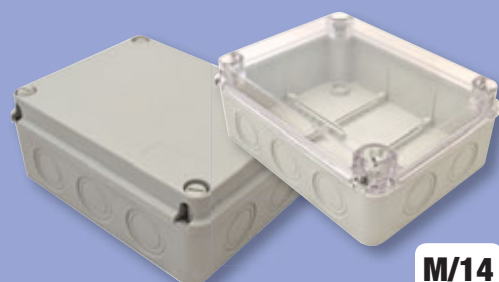


SSTM-02..



SSTM-03..



SSTM-04..**230
V AC****I_e (AC 3, 230 V)
12 A**
6,3x0,8 mm
5x10⁴**TRACON SSTM-04****TRACON SSTM-045****SSTM-31..****400
V AC****I_e (AC 3, 400 V)
8 A**
6,3x0,8 mm
x10⁴**TRACON SSTM-316****TRACON SSTM-317****SSTM-32..****400
V AC****I_e (AC 3, 400 V)
8 A**
6,3x0,8 mm
5x10⁴**TRACON SSTM-326****TRACON SSTM-327****Electronics boxes****M/14****SSTM-BOX**

Can be fitted to next versions:

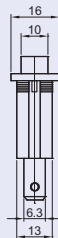
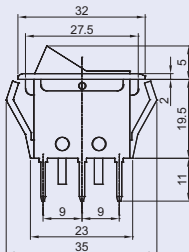
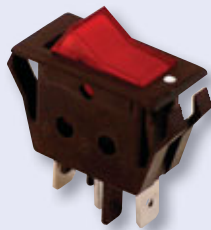
SSTM-02, -025**SSTM-316, -317****SSTM-326, -327****113x77x60 mm****IP
42****TRACON SSTM-BOX**

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 12, 250 V) 0,27 A	U_i 660 V	U_{imp} 6 kV	[mm²] 0,5-2,5	[h] 5×10 ⁴	[h] 15.000	% RH max. 95	T_a -20...+55°C	IP 42	10 A gG
------------------------------------	---	---	--	--------------------------------------	---------------------------------------	------------------------------------	---------------------------------	----------------------	------------------------	-------------------------------------	--------------	----------------

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



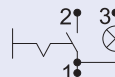
TRACON

TES-11

6,3 × 0,8 mm



3



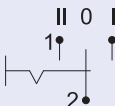
TRACON

TES-12

6,3 × 0,8 mm

I-O-II

-



TRACON

TES-13

6,3 × 0,8 mm

O-I

-



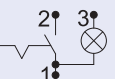
TRACON

TES-21

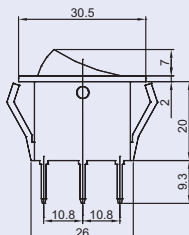
6,3 × 0,8 mm

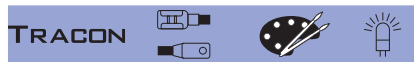


✓



ON-OFF switch

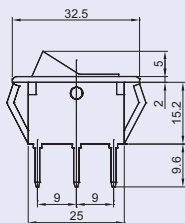
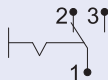
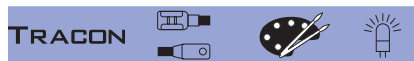


**TES-22**

4,8 × 0,8 mm

0-1

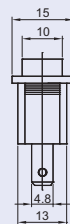
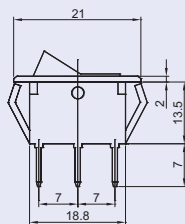
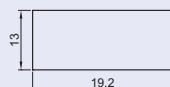
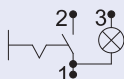
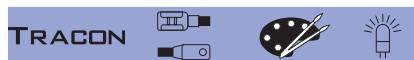
-

**Alternate switch****TES-33**

4,8 × 0,8 mm

0-1

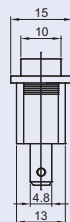
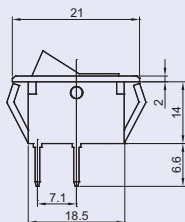
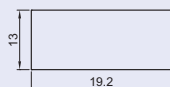
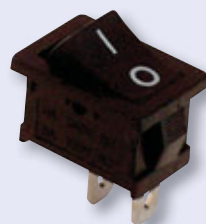
✓

**ON-OFF switch****TES-34**

4,8 × 0,8 mm

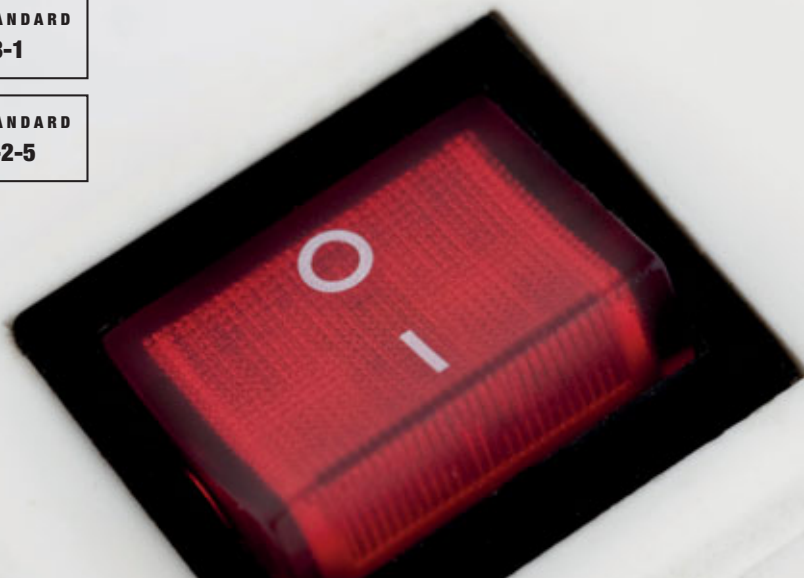
0-1

-

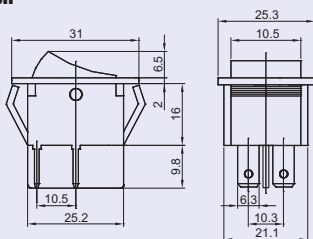
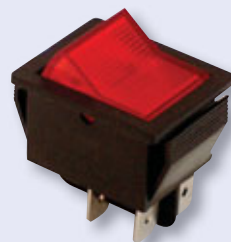
**ON-OFF switch**

RELEVANT STANDARD
EN 61058-1

RELEVANT STANDARD
EN 61058-2-5

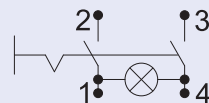


2 poles switch ON-OFF switch

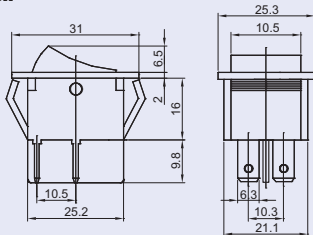


TRACON    

TES-41 6,3 × 0,8 mm ✓

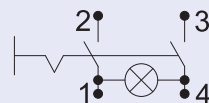


2 poles switch ON-OFF switch

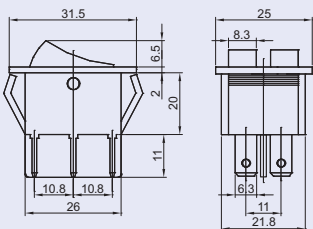


TRACON    

TES-42 6,3 × 0,8 mm 0-1 ✓

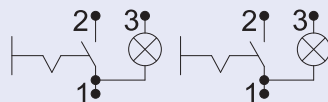


ON-OFF switch

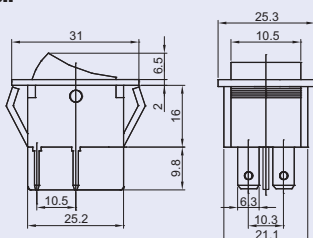


TRACON    

TES-43 6,3 × 0,8 mm 0-1, 0-1 ✓

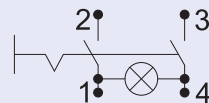


2 poles switch ON-OFF switch

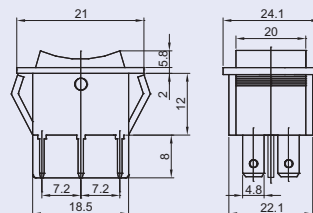


TRACON    

TES-44 6,3 × 0,8 mm 0-1 ✓

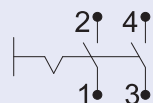


2 poles switch ON-OFF switch



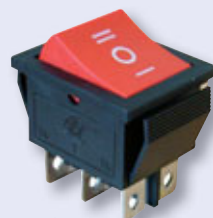
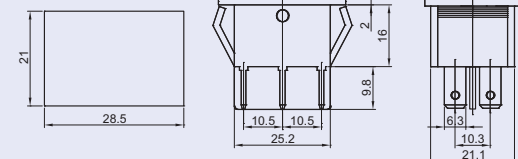
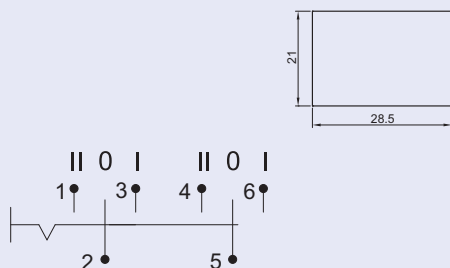
TRACON    

TES-51 4,8 × 0,8 mm 0-1 -



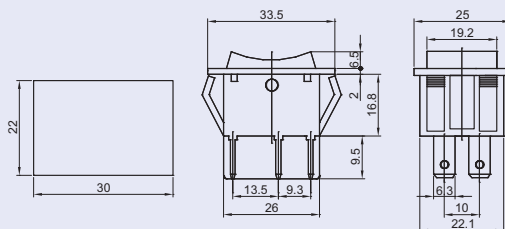
TRACON			
			
TES-52	6,3 × 0,8 mm	I-O-II	—
TES-52-2	6,3 × 0,8 mm	I-O-II	—

2 poles switch ON-OFF switch



TES-52

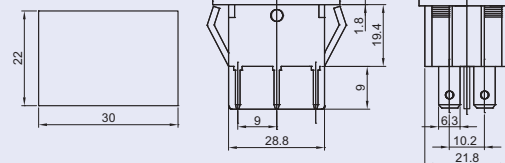
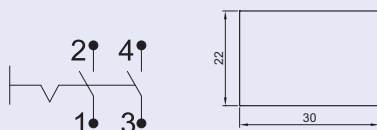
2 poles switch ON-OFF switch (With spring return)



TES-52-2

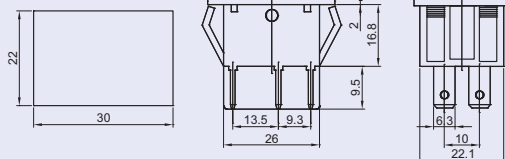
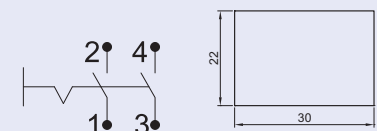
TRACON			
			
TES-53	6,3 × 0,8 mm	O-I	—

2 poles switch ON-OFF switch



TRACON			
			
TES-53-1	6,3 × 0,8 mm	O-I	—

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



TRACON

TES-GB

IP 55

Can be fitted to next versions:

TES-42

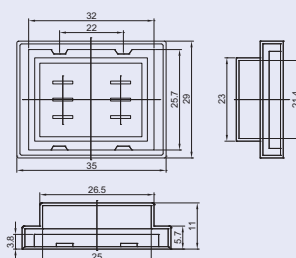
TES-52-1

TES-43

TES-52-2

TES-52

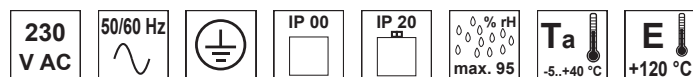
TES-53



PVC membrane



One phase isolating transformers TVTR



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



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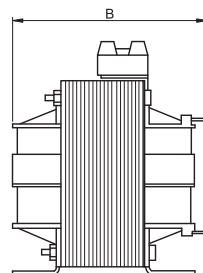
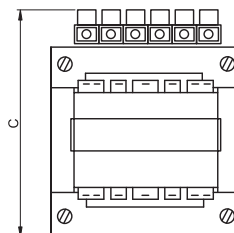
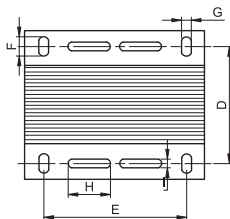
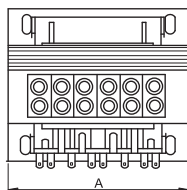
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TRACON	P_n	U_{pr}	U_{sec}	P_{sec} *	I_{sec}
TVTR-250-B	250 VA	230 V	6-12-18-24 V	62,5-125-187,5-250 VA	10,41 A
TVTR-250-C		230 V	12-24-42 V	71,4-142,8-250 VA	5,95 A
TVTR-250-D		230 V	24-42-110 V	54,5-95,4-250 VA	2,27 A
TVTR-250-E		230 V	42-110-230 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)	
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

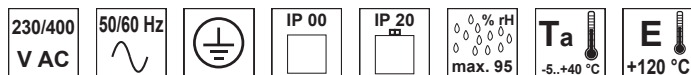


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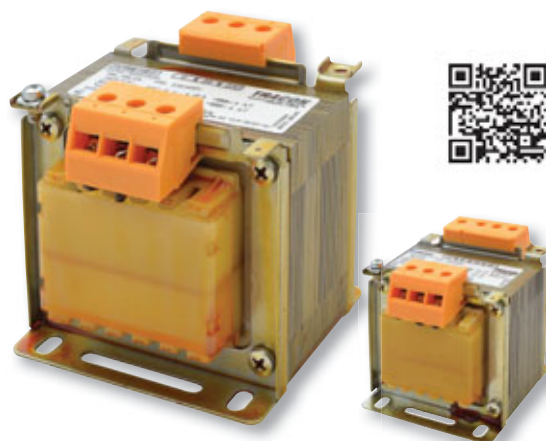
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Monophase isolating safety transformers



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-O		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-O		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 61558-2-4

Low voltage current transformers



L/26



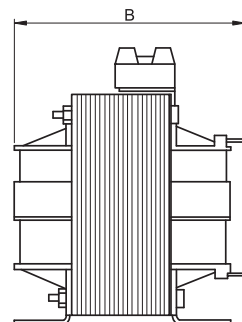
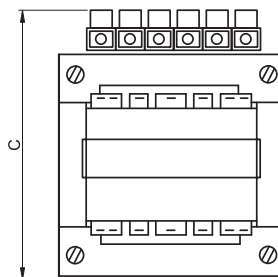
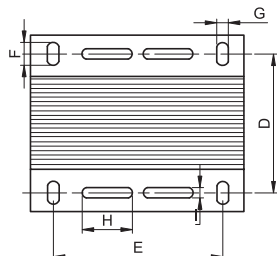
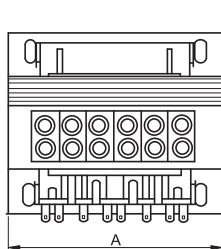
TRACON	P_n	U_{pr} 	U_{sec} 	P_{sec} * 	I_{sec} 
TVTRB-160-B	160 VA	230-400 V	12-24 V	80-160 VA	6,67 A
TVTRB-160-F		230-400 V	24-230 V	16,7-160 VA	0,70 A
TVTRB-160-M		230 V	12 V	160 VA	13,34 A
TVTRB-250-B	250 VA	230-400 V	12-24 V	125-250 VA	10,42 A
TVTRB-250-F		230-400 V	24-230 V	26-250 VA	1,09 A
TVTRB-250-O		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)	
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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