

Pictograms of the table head

U_m Nominal control voltage	P_n Rated power	 Rated power	 Notes, additions
 Primary voltage	 Secondary voltage	 Secondary current	 Secondary power values
 Two position	 Three position	 Key takeout position (left)	 Key takeout position (left and right)
 Key takeout position (middle)	 Key takeout position	 Releasing: by turning	 Releasing: with key
 Electric data of contacts	 Light (LED) units	 Dimension	 Tape of socket
 Tighten torque	 Thread	 Quick-connecting terminals	 Cable glands
 Basis type	 With enclosure IP 44	IP.. Protection degree	 Colour
 Weight	 Sound signal	 Protection degree from the front side	

Pictograms of the technical data

230/400 V AC Rated voltage (V)	U_m max. 400 V Nominal control voltage	 U_i 660 V Rated insulation voltage	U_{imp} 6 kV Rated impulse withstand voltage
I_e (AC 1, 230 V) 15 A Nominal operational current	50/60 Hz Rated frequency	 Suggested backup fuse	[mm²] 0,5-2,5 Connectable cable
 The operator heads can be turned in 90° steps!	 The operator heads can be turned in 90° steps, the arm in 180° steps!	F_{on} max. 20 N Switching on force	F_{off} max. 15 N Switching off force
 Mechanical life ×10⁶	E +120 °C Heat-proof category	 Protection class: I.	ON-OFF-ON... sc/h ×3.600 Switching frequency (C-O cycles/hour)
IP 42 Protection degree (installed, from the front side)	IP 20 Protection of terminals (basic)	IP 55 Protection degree	 Vibration resistance
 Relativ humidity max. 95	T_a -25...+55°C Ambient temperature	 22 mm Cutting size	





LS15 limit switches **2**



LS7 limit switches **5**



LSME limit switches **8**



VP limit switches **12**



VT limit switches **16**



VM limit switches **20**



KW limit switches (micro switches) **24**



Pushbuttons, basic **26**



Pushbuttons, protruding **26**



Pushbuttons with light **27**



Pushbuttons with signal **28**



Pushbuttons with mushroom head **29**



Double ON-OFF switches **30**



Knob switches **30**



Knob handle switches with light **31**



Key switches **31**



Contact units **32**



Protection covers **32**



Accessories **34**



Voltage meter, Ammeter, Buzzer **34**



LED Warning Lamp Vertical Base **35**



LJL type LED signal lamps **36**



Simple pushbuttons **37**



Pushbuttons with symbols **38**



Mushroom head pushbuttons with key **39**



Double on-off pushbuttons **40**



Selector switches **42**



Key switches **43**



Normal signal bulbs **44**



Contact elements **44**



Enclosures **45**



Relay safety switches **46**



TES device switches **48**



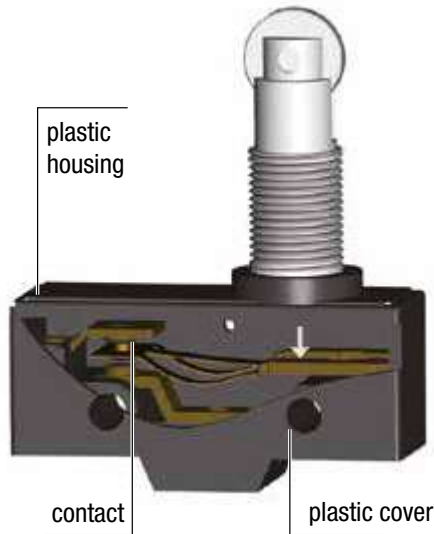
One phase isolating transformers TVTR **52**



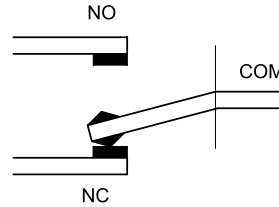
One phase isolating safety transformers TVTRB **54**

LS15 limit switches

I_{th} 15 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	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

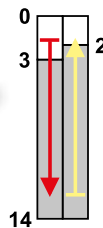
RELEVANT STANDARD
EN 60947-5-1

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

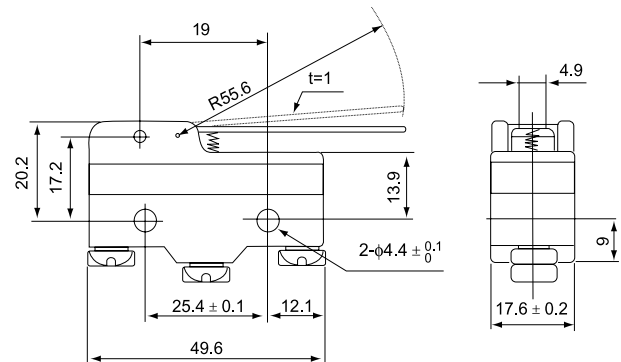
Version with spring handle



TRACON
LS15GM-B



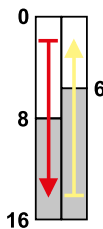
Operating distance (mm)



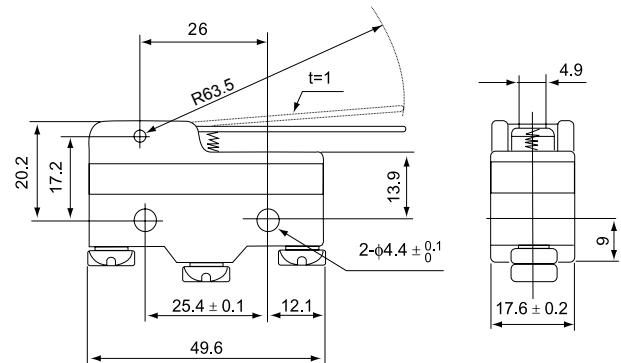
Version with spring handle



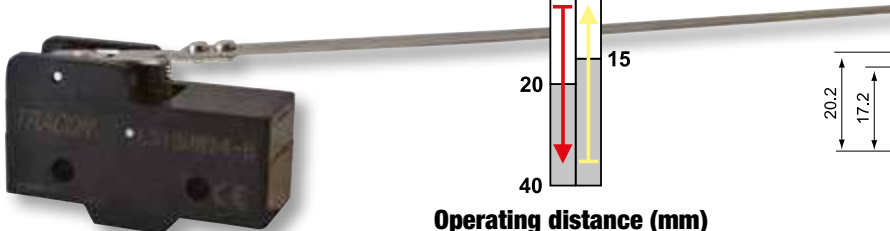
TRACON
LS15GW-B



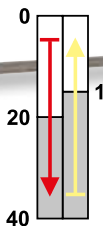
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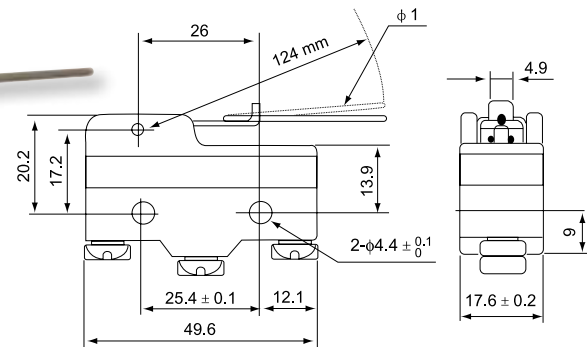
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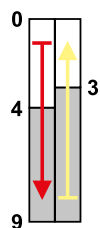
TRACON
LS15HW24-B



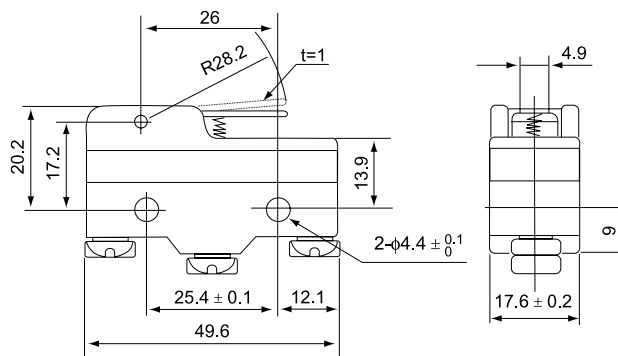
Operating distance (mm)



Version with spring handle



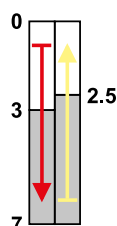
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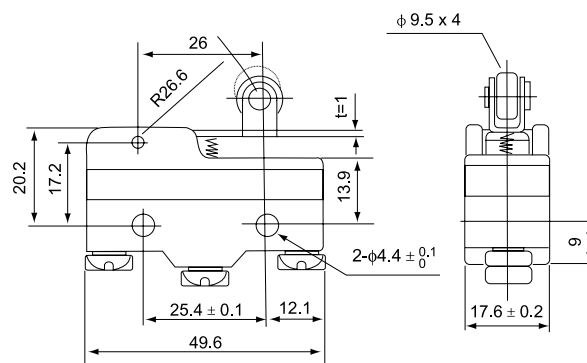
TRACON
LS15GW21-B



Version with spring handle and roll



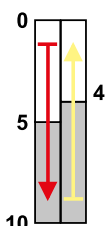
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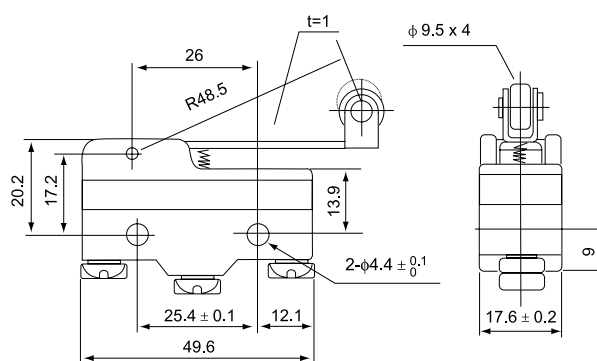
TRACON
LS15GW22-B



Version with spring handle and roll



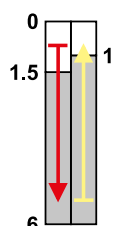
Operating distance (mm)



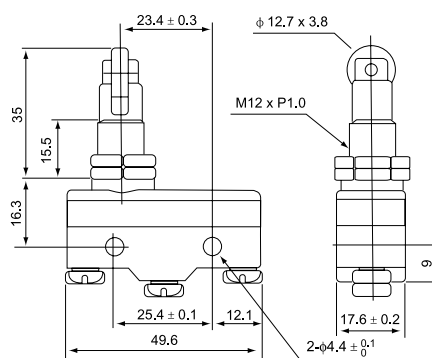
TRACON
LS15GW2-B



Version with roll



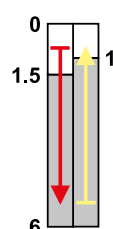
Operating distance (mm)



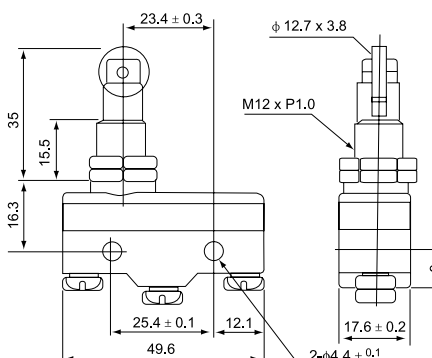
TRACON
LS15GQ21-B



Version with roll



Operating distance (mm)



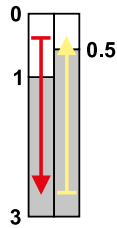
TRACON
LS15GQ22-B



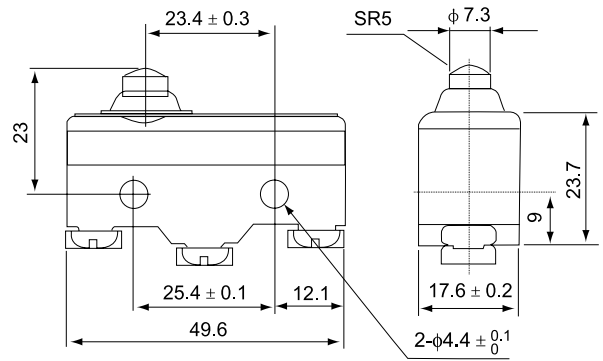
Version with cone bumper



TRACON
LS15GD-B



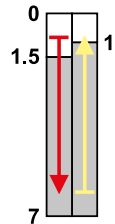
Operating distance (mm)



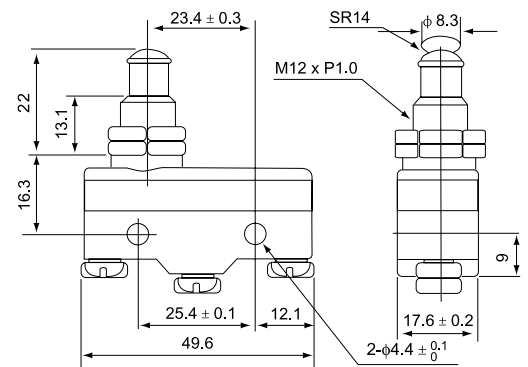
Version with cone bumper



TRACON
LS15GQ-B



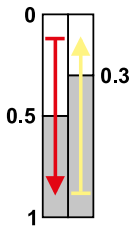
Operating distance (mm)



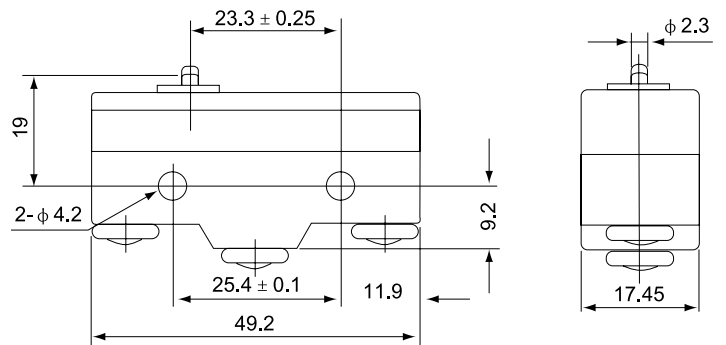
Version with bumper



TRACON
LS15G-B



Operating distance (mm)



Cover for LS15 limit switch



TRACON
LS15-COV

IP 40



LS7 limit switches

I_{th} 10 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	ON-OFF-ON... sc/h ×1.800	T_a -25...+55°C	IP 40
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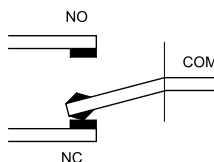
 Pictograms	K/0
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RELEVANT STANDARD
EN 60947-1

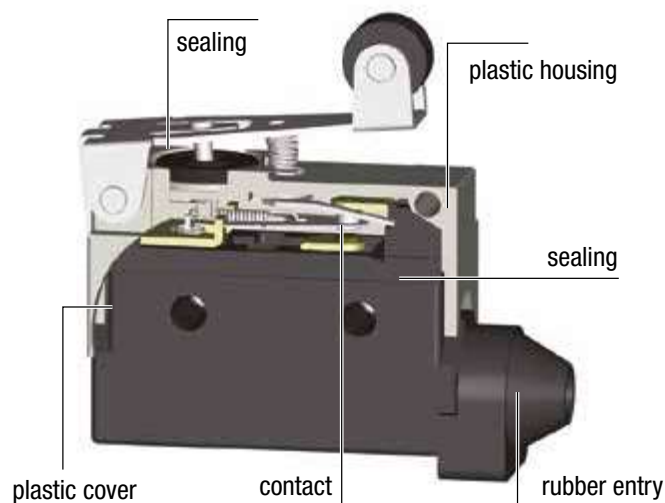
RELEVANT STANDARD
EN 60947-5-1



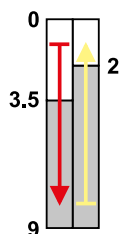
Type of contact: C



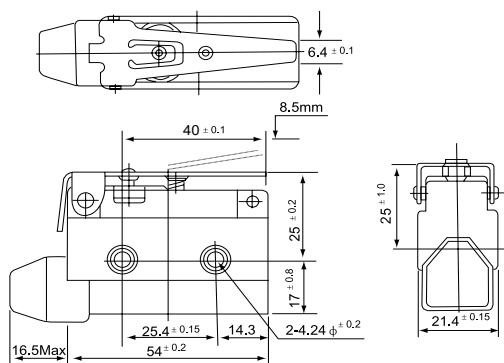
- Strong housing
- Changeover contact
- Contact point for ring terminals
- Easy wire connection
- With different type switching mechanism



Version with spring handle



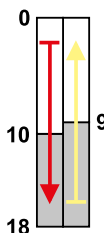
Operating distance (mm)



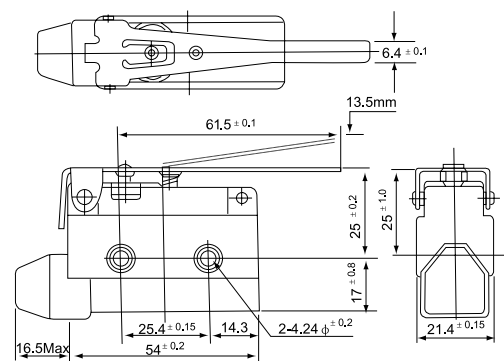
TRACON
LS7140



Version with spring handle



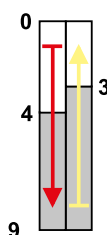
Operating distance (mm)



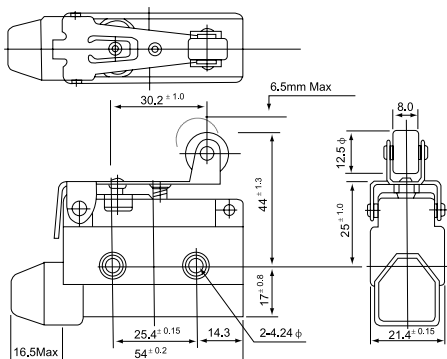
TRACON
LS7120



Version with spring handle and roll



Operating distance (mm)



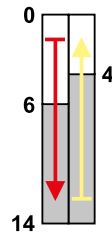
TRACON
LS7141



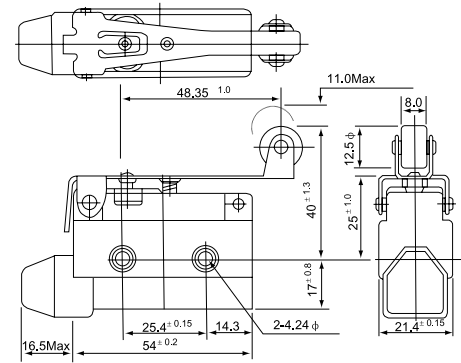
Version with spring handle and roll



TRACON
LS7121



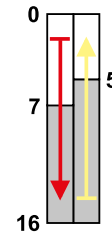
Operating distance (mm)



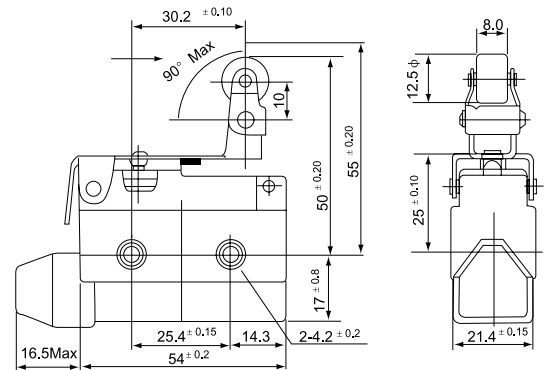
Version with spring handle and jointed roll



TRACON
LS7144



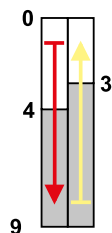
Operating distance (mm)



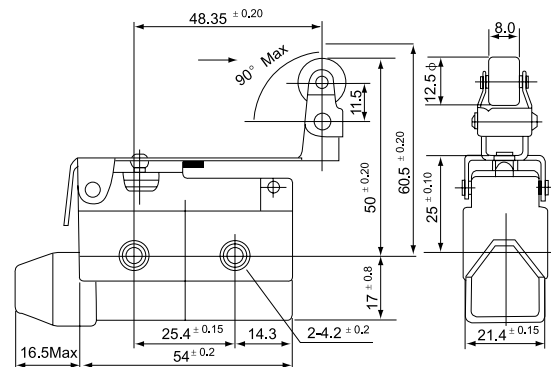
Version with spring handle and jointed roll



TRACON
LS7124



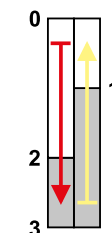
Operating distance (mm)



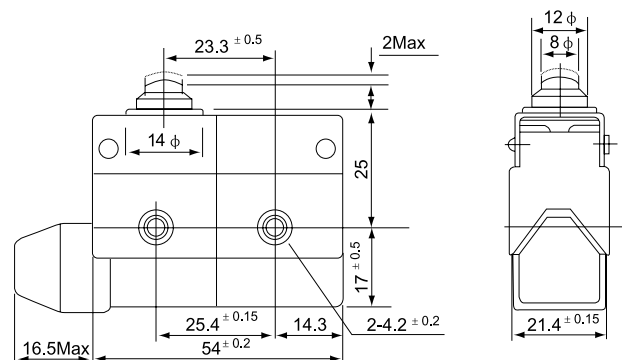
Version with cone bumper



TRACON
LS7100



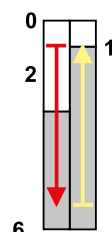
Operating distance (mm)



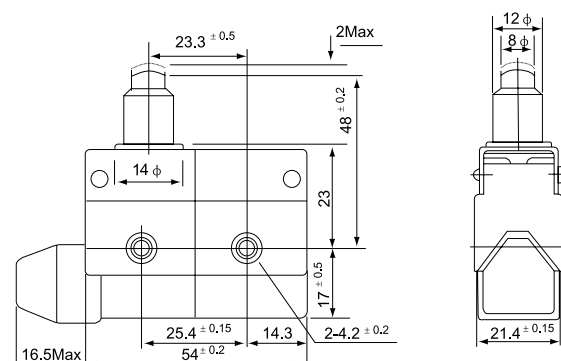
Version with cone bumper



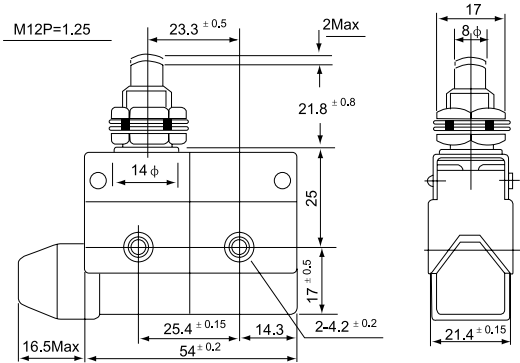
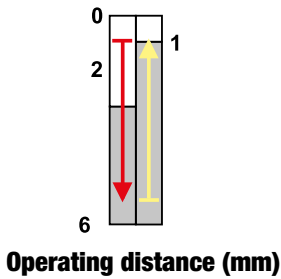
TRACON
LS7110



Operating distance (mm)



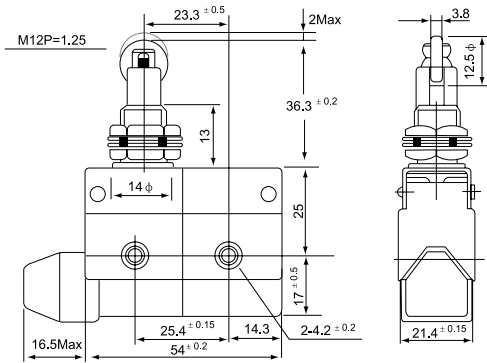
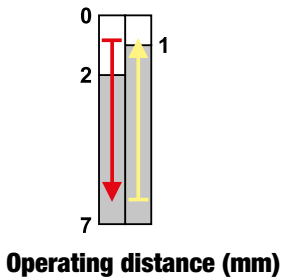
Version with cone bumper



TRACON
LS7310



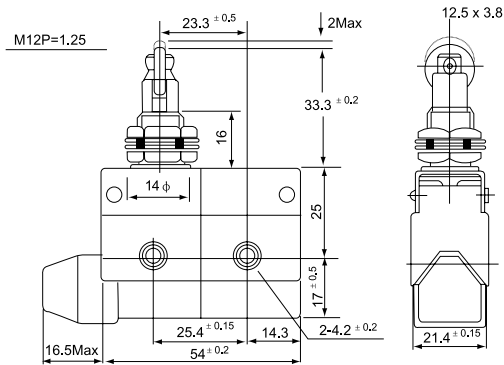
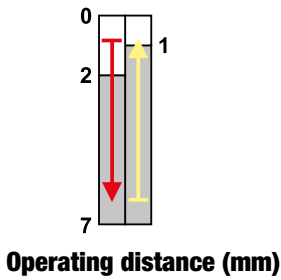
Version with roll



TRACON
LS7311



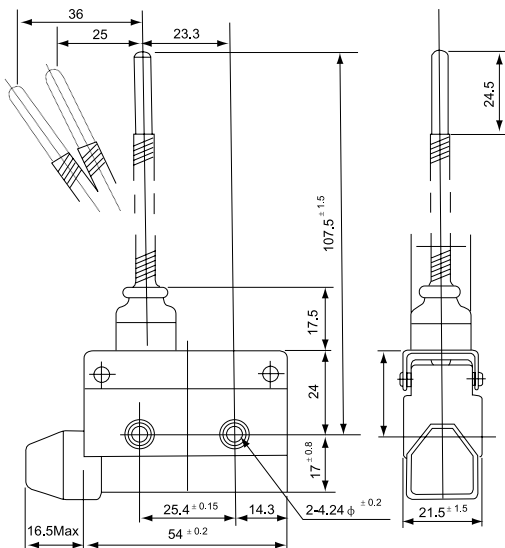
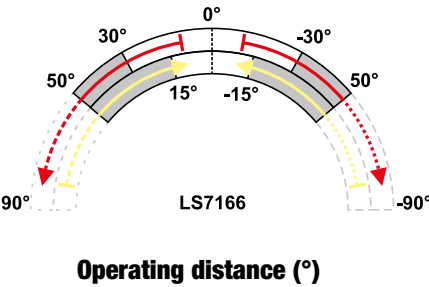
Version with roll



TRACON
LS7312



Version with spring stick

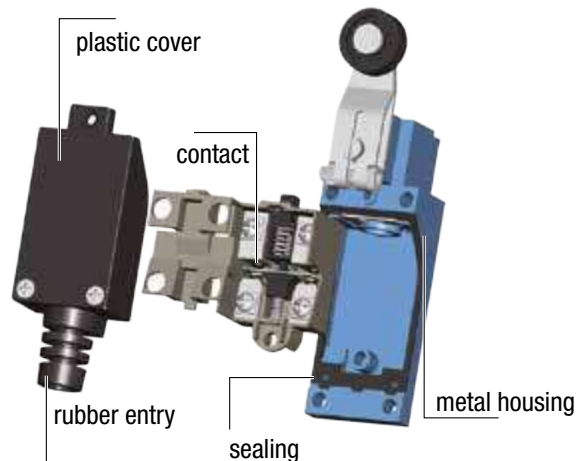


TRACON
LS7166

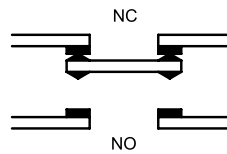


LSME limit switches

I_{th} 10 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 x1.800	T_a -25...+55°C	IP 65
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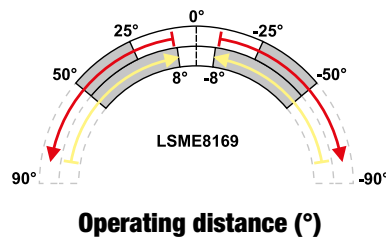
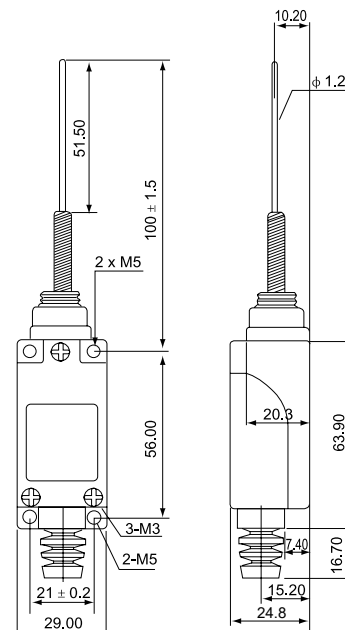
Type of contact: Za

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

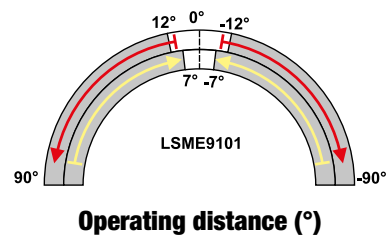
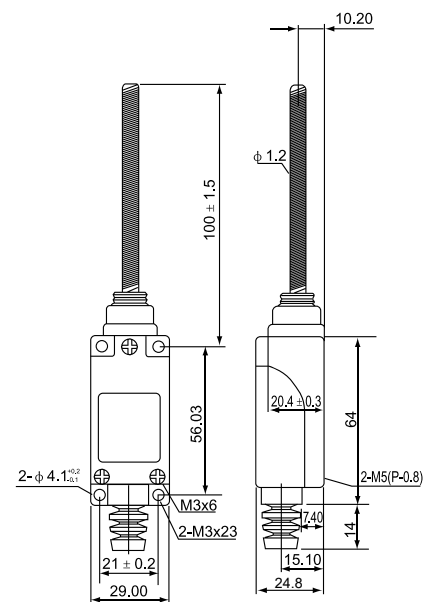
- double contacts
- massive construction
- plastic and aluminum die-cast
- water- and oilproof

- double spring mechanism
- long lifetime
- easy wiring

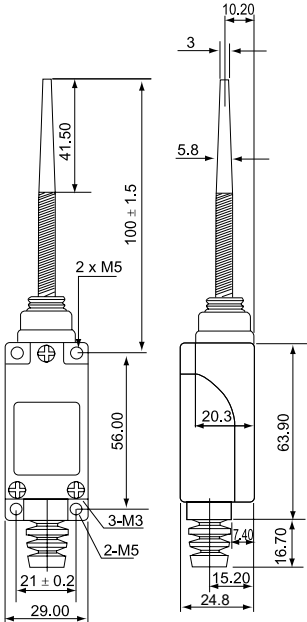
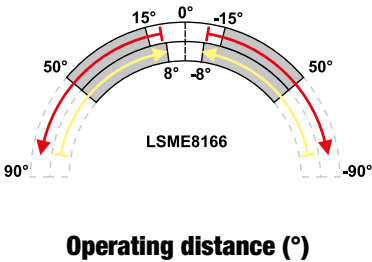
Version with spring stick

TRACON
LSME8169

Version with spring stick

TRACON
LSME9101

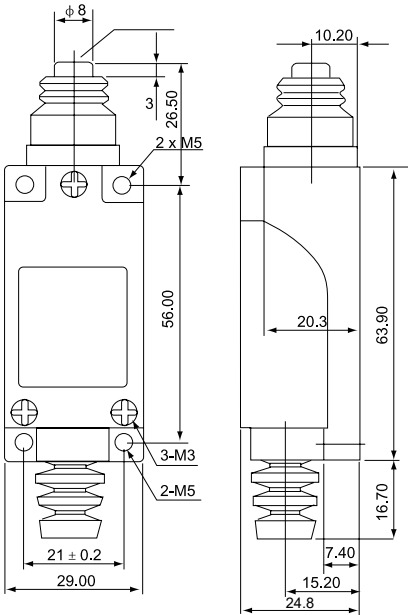
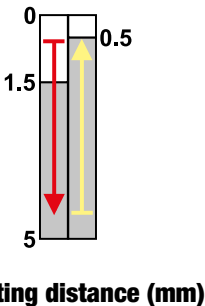
Version with spring stick



TRACON
LSME8166



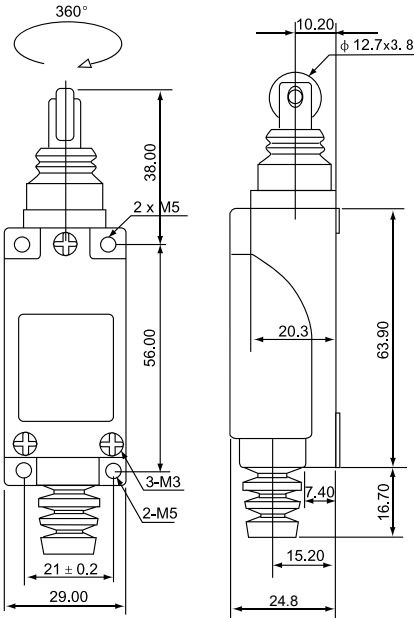
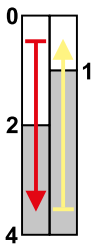
Version with cone bumper



TRACON
LSME8111



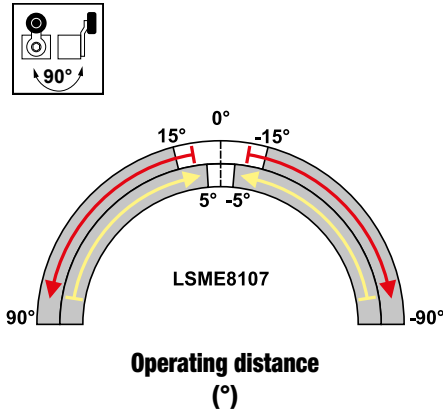
Version with roll



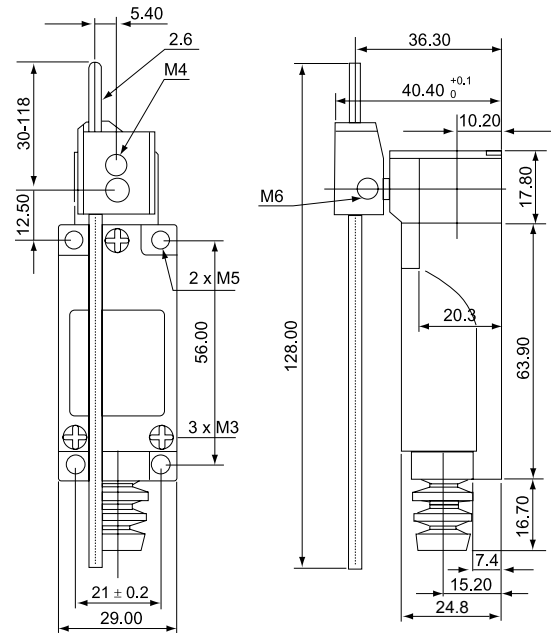
TRACON
LSME8122



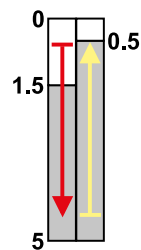
Version with twisting arm and stick



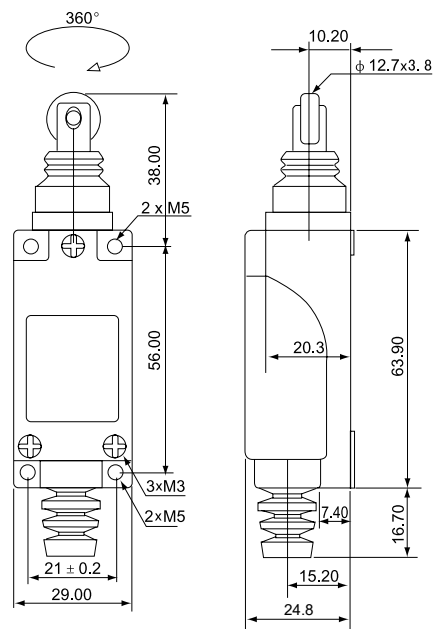
TRACON
LSME8107



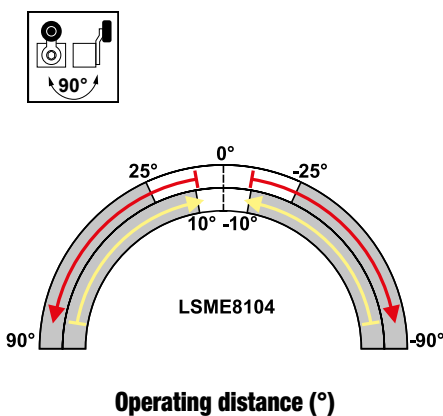
Version with roller bumper



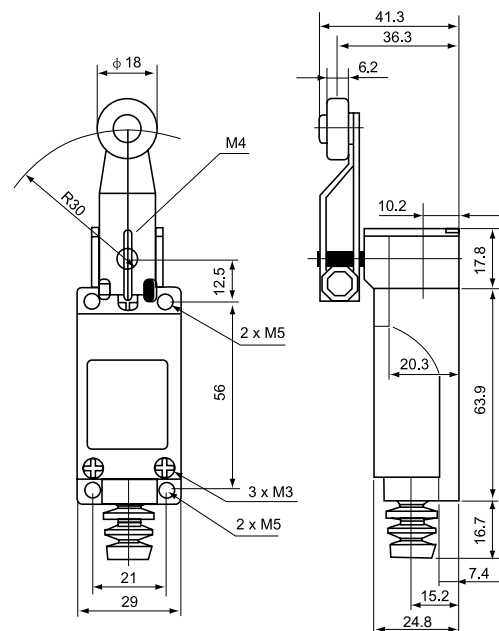
TRACON
LSME8112



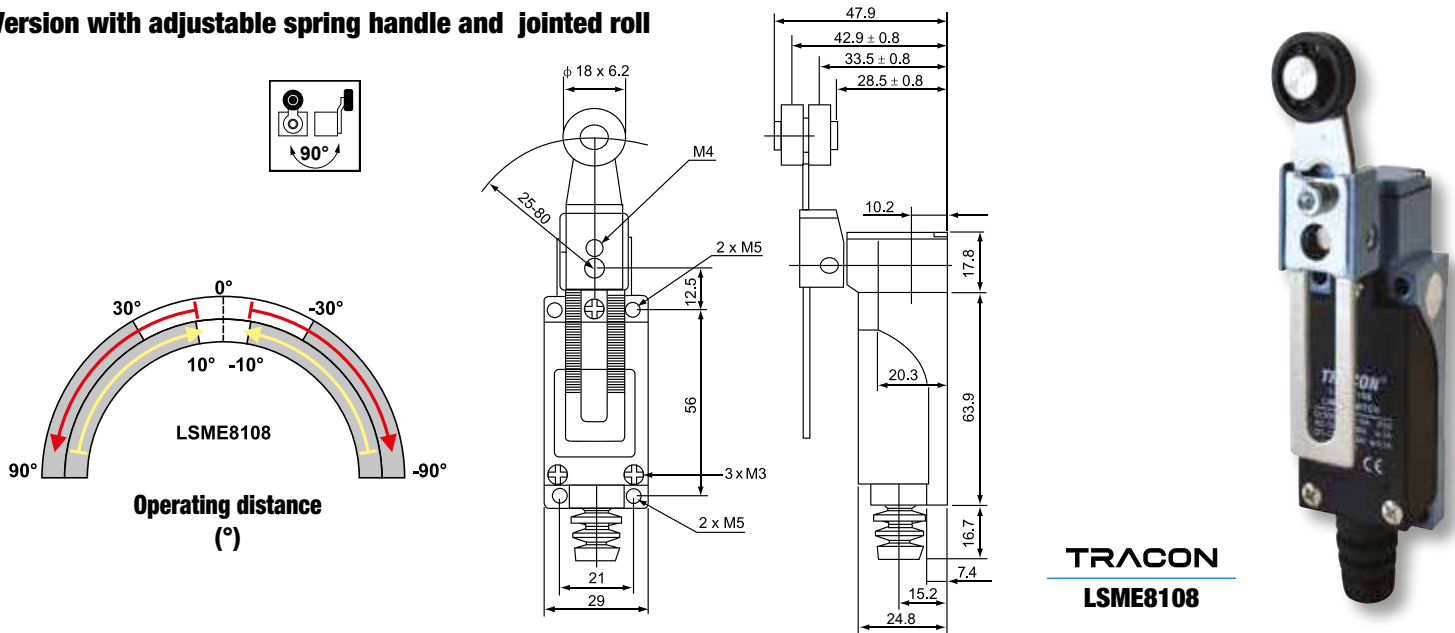
Version with twisting arm and roll



TRACON
LSME8104



Version with adjustable spring handle and jointed roll



Our range of products is continuously and quickly expanding. Our catalogue shows our products as of September 2024. Check our website to stay up-to-date.

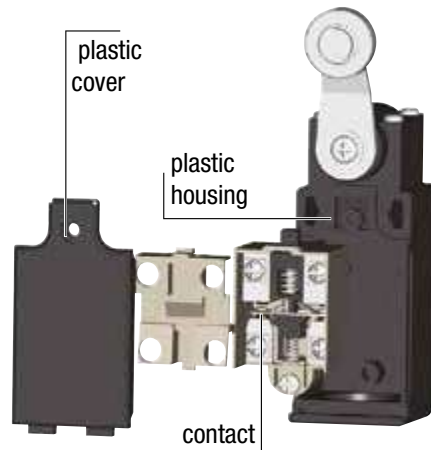
SCAN THE QR CODE!

- Check our new products
- Be updated

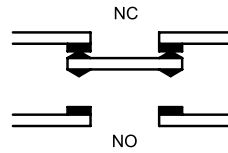


VP limit switches

I_{th} 10 A	I_e (AC 15, 230 V) 6 A	I_e (DC 13, 250 V) 0,3 A	U_i 500 V	[mm²] 0,75-1,5	5×10⁶	ON-OFF-ON... sc/h ×1.800	T_a -25...+55°C	IP 65
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Type of contact: Za

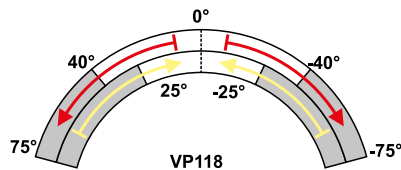
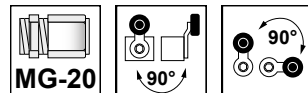


- double contacts
- strong plastic cover
- massive construction
- precise switching
- long lifetime
- easy wiring

RELEVANT STANDARD
EN 60947-5-1

RELEVANT STANDARD
EN 60947-1

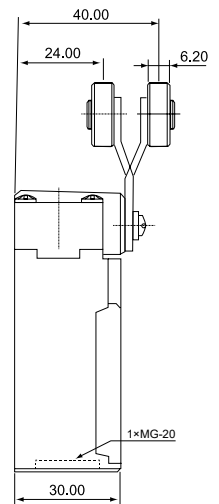
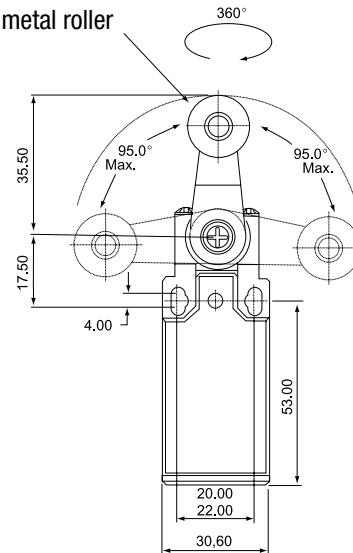
Version with twisting arm



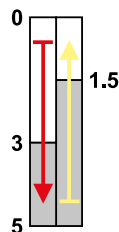
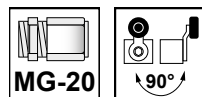
Operating distance (°)

TRACON
VP118

d = 18 mm
metal roller



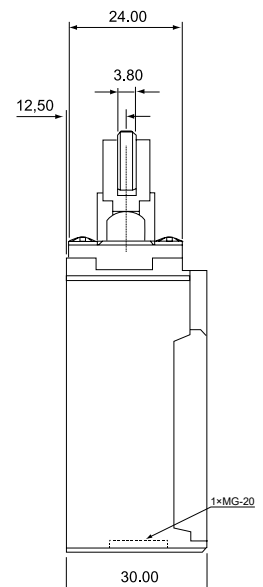
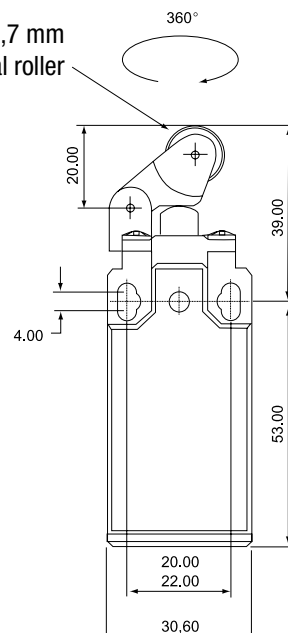
Version with twisting arm



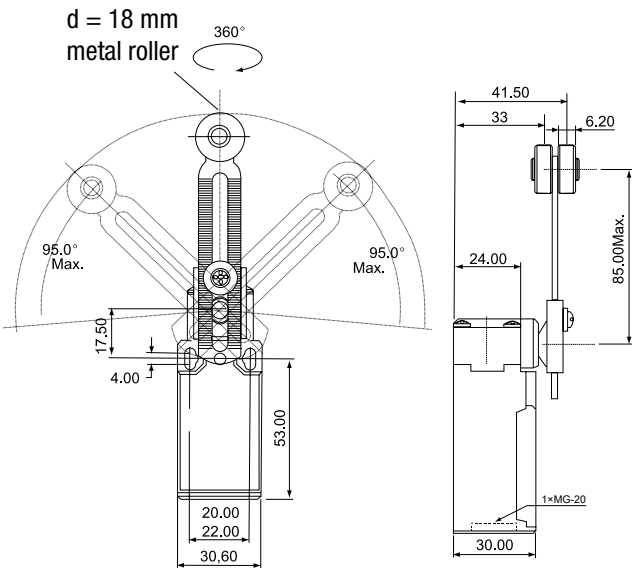
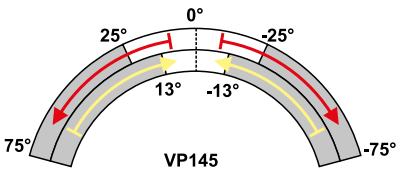
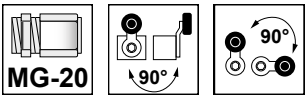
Operating distance (mm)

TRACON
VP121

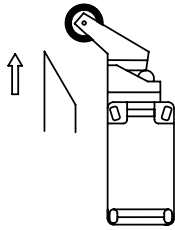
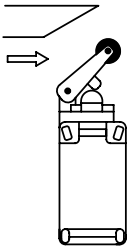
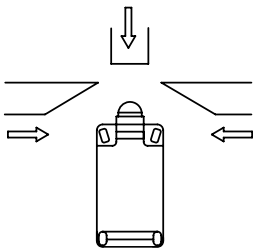
d = 12,7 mm
metal roller



Version with adjustable rolling arm



Operation directions



TRACON
VP145



I/17



CFB...

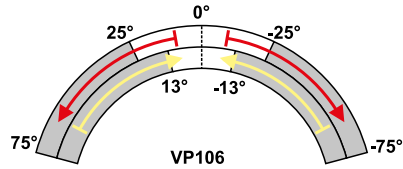
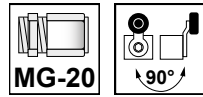


DSH...



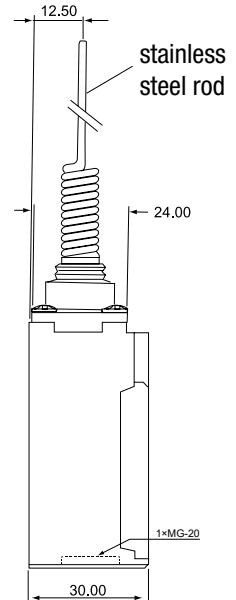
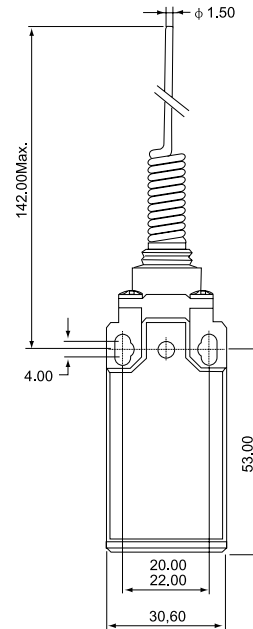
DSV...

Version with spring stick

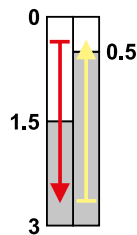
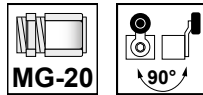


Operating distance (°)

TRACON
VP106

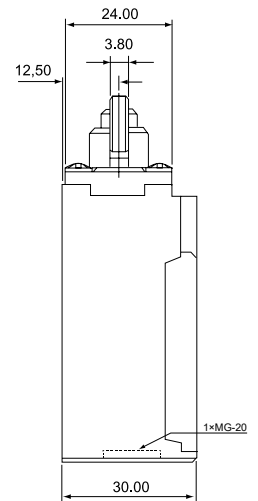
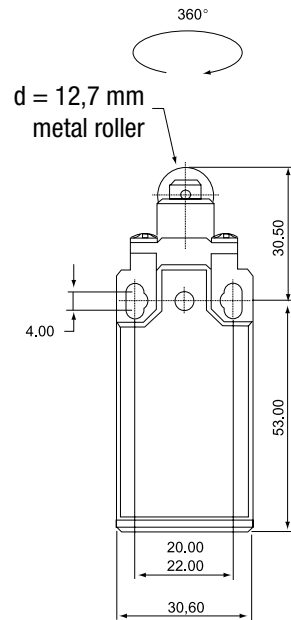


Version with roller bumper

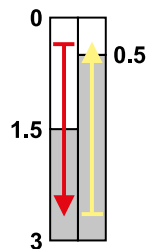
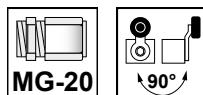


Operating distance (mm)

TRACON
VP102

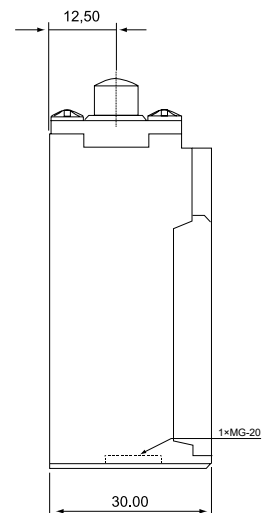
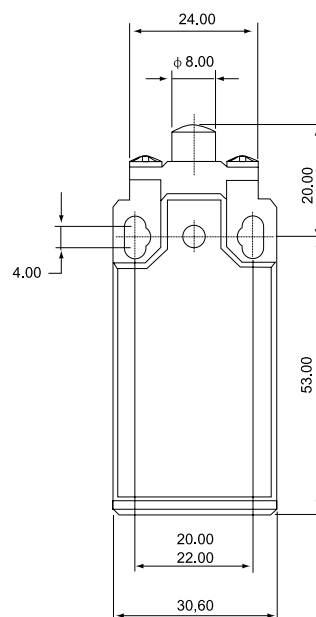


Version with cone bumper

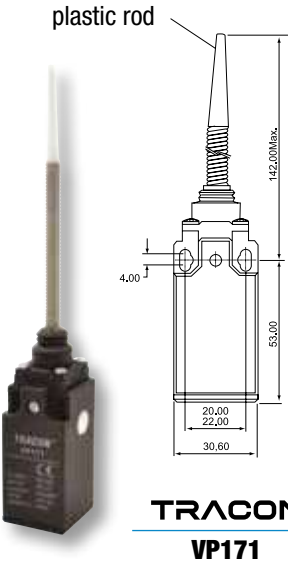


Operating distance (mm)

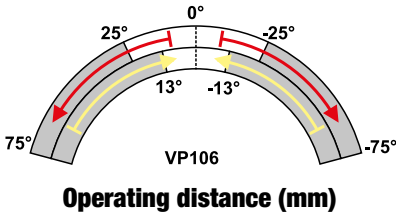
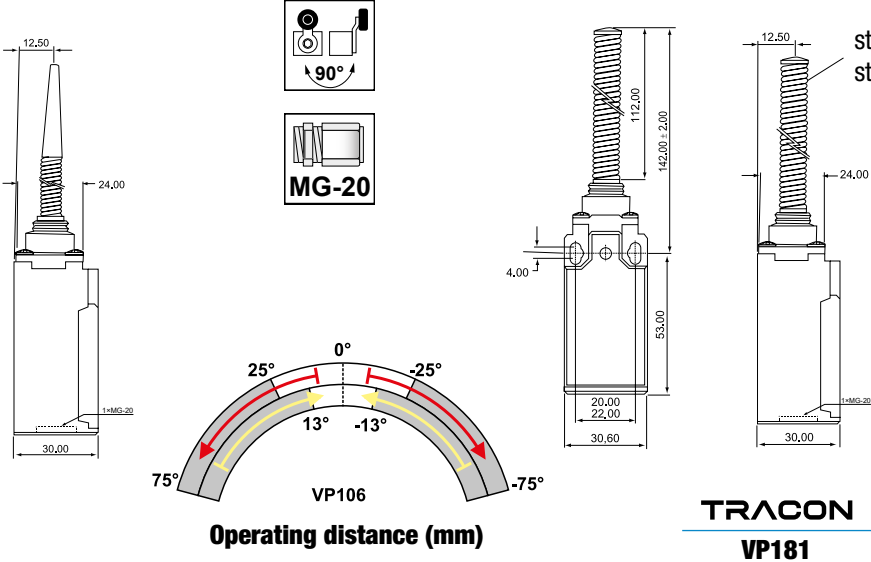
TRACON
VP110



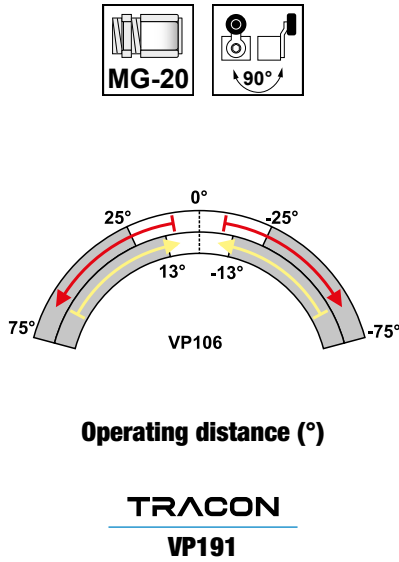
Version with twisting arm



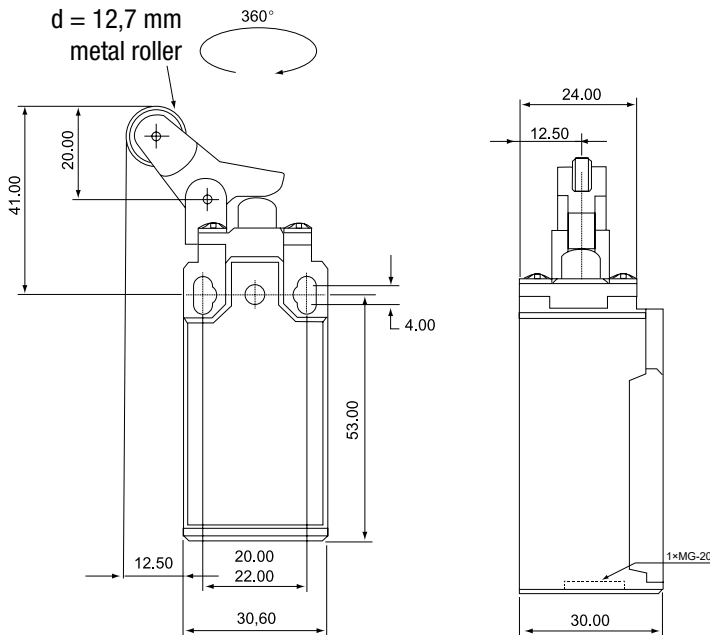
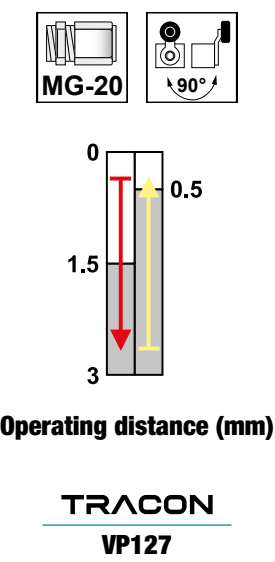
Version with roller bumper



Version with spring stick

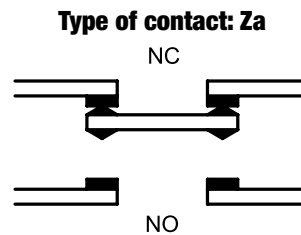
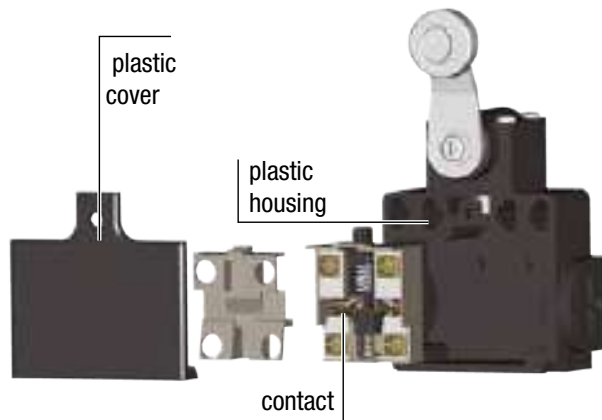


Version with cone bumper



VT limit switches

I_{th} 10 A	I_e (AC 15, 230 V) 6 A	I_e (DC 13, 230 V) 0,3 A	U_i 500 V	[mm²] 0,75-1,5	×10⁷	ON-OFF-ON... sc/h ×1.800	T_a -25...+55°C	IP 65
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RELEVANT STANDARD
EN 60947-1

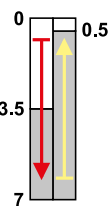
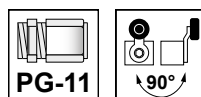
RELEVANT STANDARD
EN 60947-5-1

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

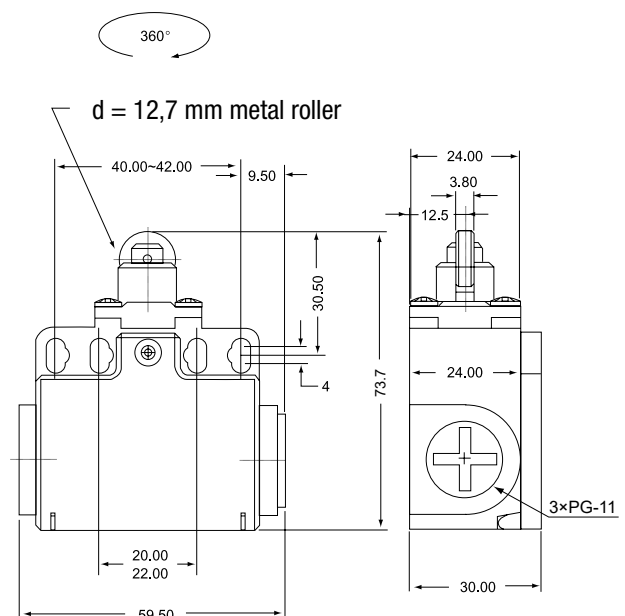
Version with roller bumper



TRACON
VT102



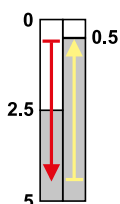
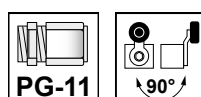
Operating distance (mm)



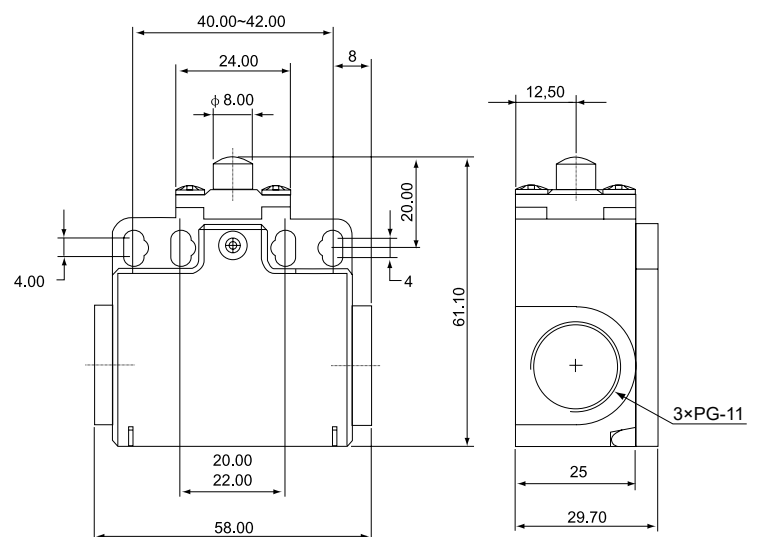
Version with cone bumper



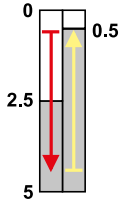
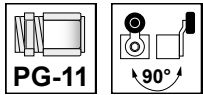
TRACON
VT110



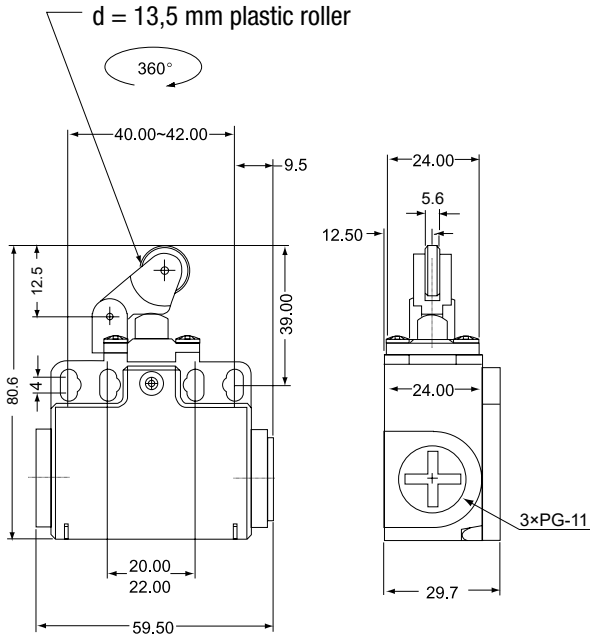
Operating distance (mm)



Version with cone bumper

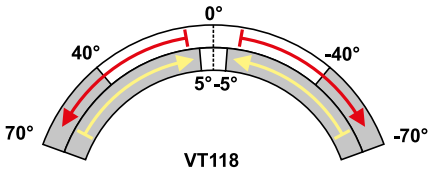
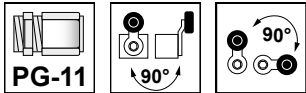


Operating distance (mm)

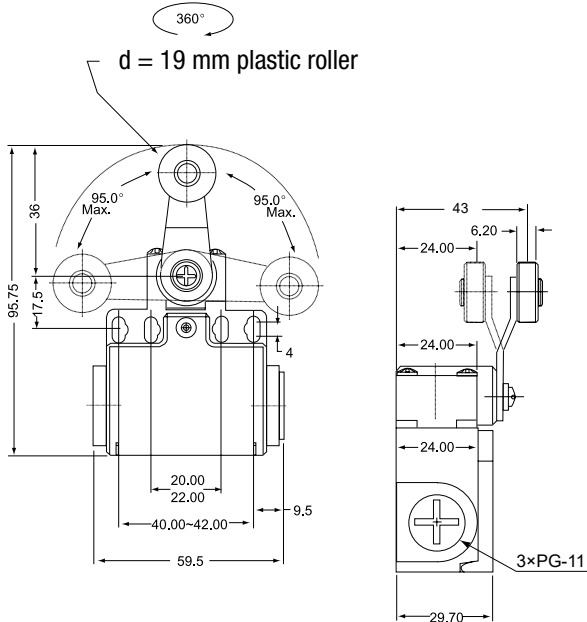


TRACON
VT121

Version with twisting arm and roll

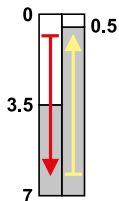
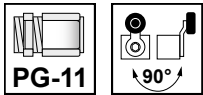


Operating distance (°)

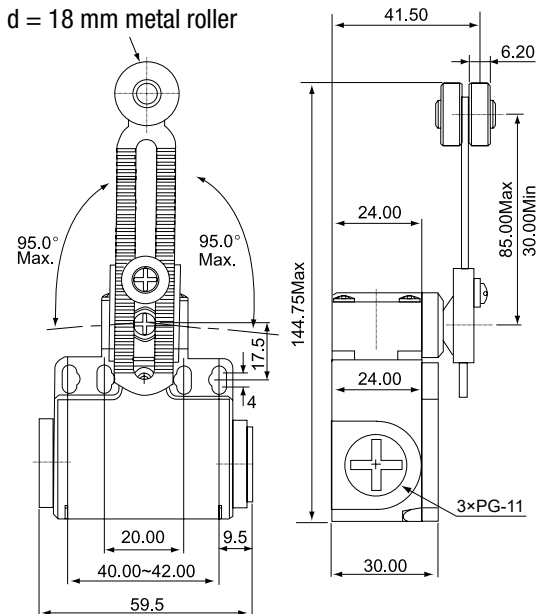


TRACON
VT118

Version with roller bumper

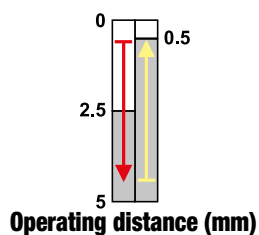
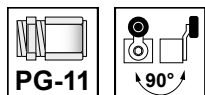


Operating distance (mm)

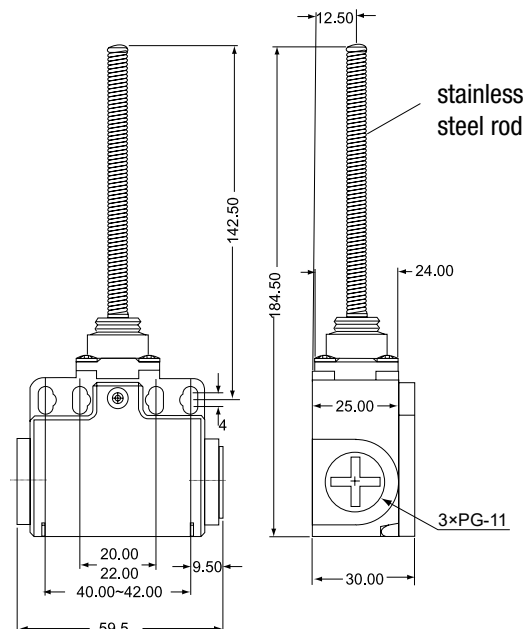


TRACON
VT145

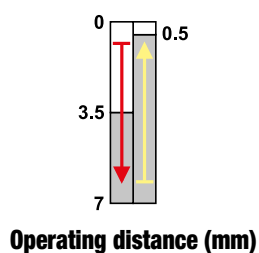
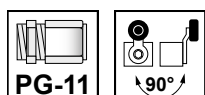
Version with cone bumper



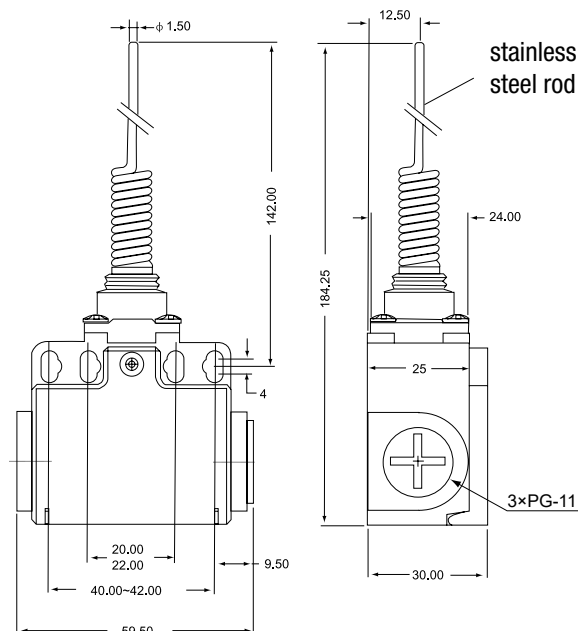
TRACON
VT181



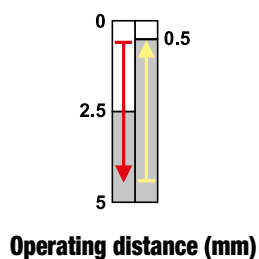
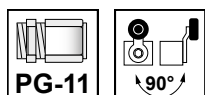
Version with roller bumper



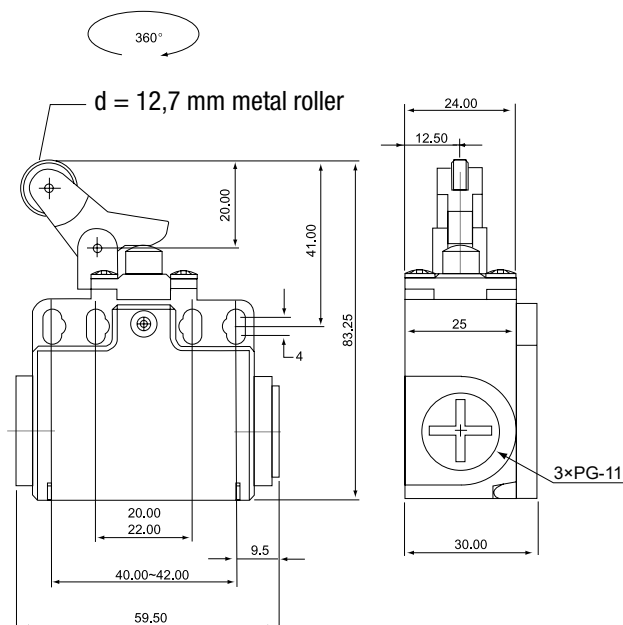
TRACON
VT106



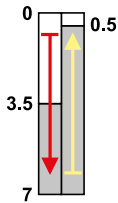
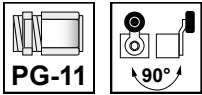
Version with cone bumper



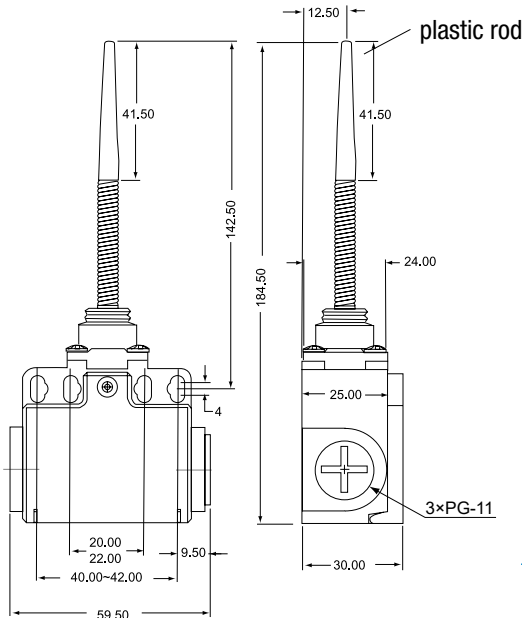
TRACON
VT127



Version with roller bumper



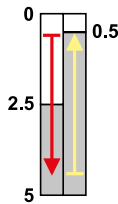
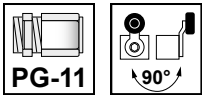
Operating distance (mm)



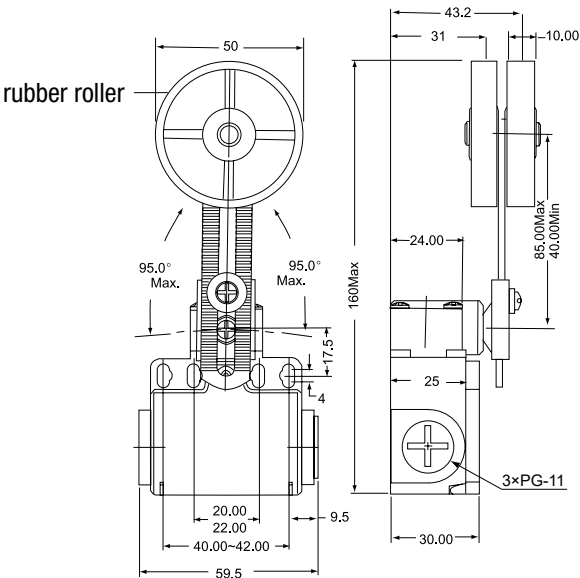
TRACON
VT171



Version with cone bumper



Operating distance (mm)



TRACON
VT191

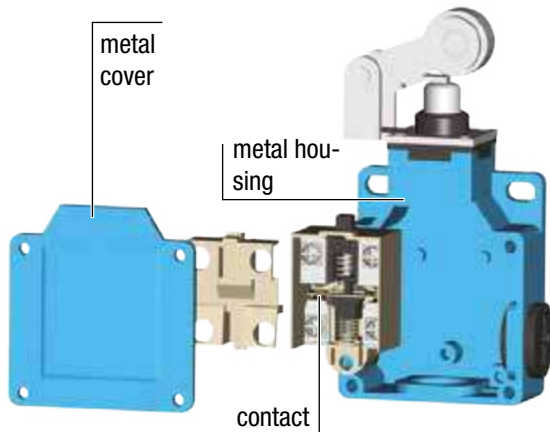
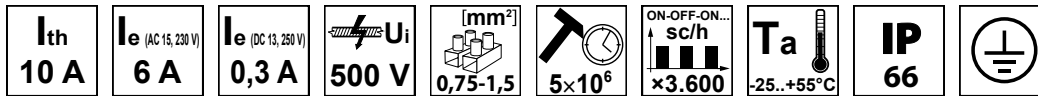




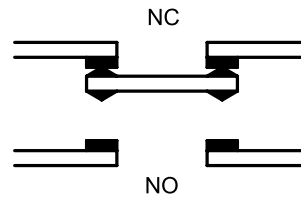
CC-1000
CF-1000
B/21



VM limit switches



Type of contact: Za

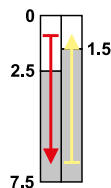
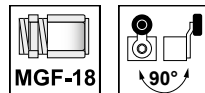


- double contacts
- strong metal cover
- massive construction
- water- and oilproof
- long lifetime
- easy wiring

RELEVANT STANDARD
EN 60947-1

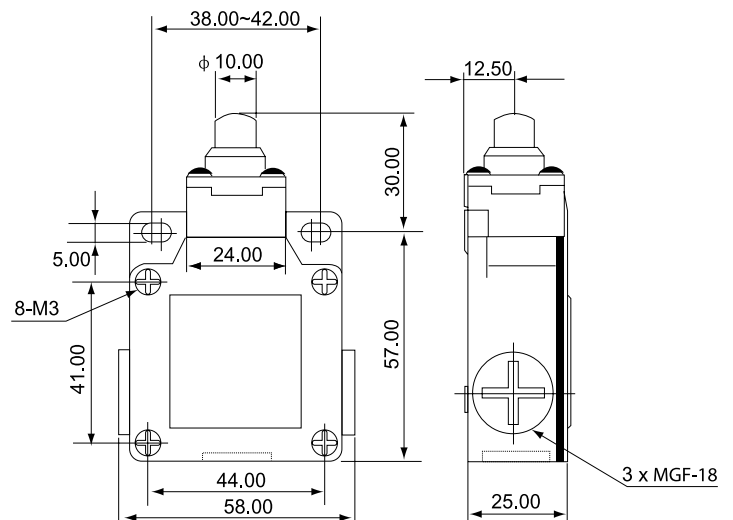
RELEVANT STANDARD
EN 60947-5-1

Version with cone bumper

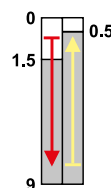
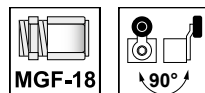


Operating distance (mm)

TRACON
VM110

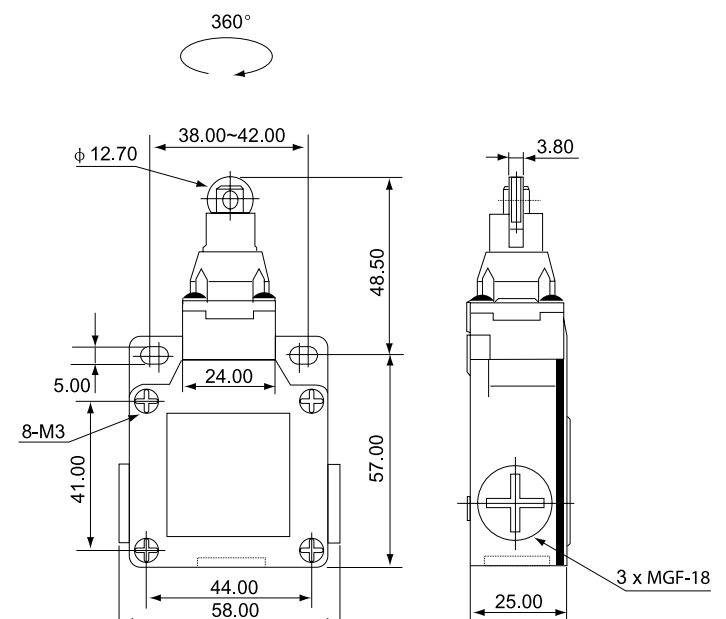


Version with roller bumper

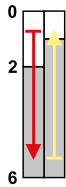
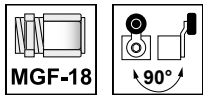


Operating distance (mm)

TRACON
VM102

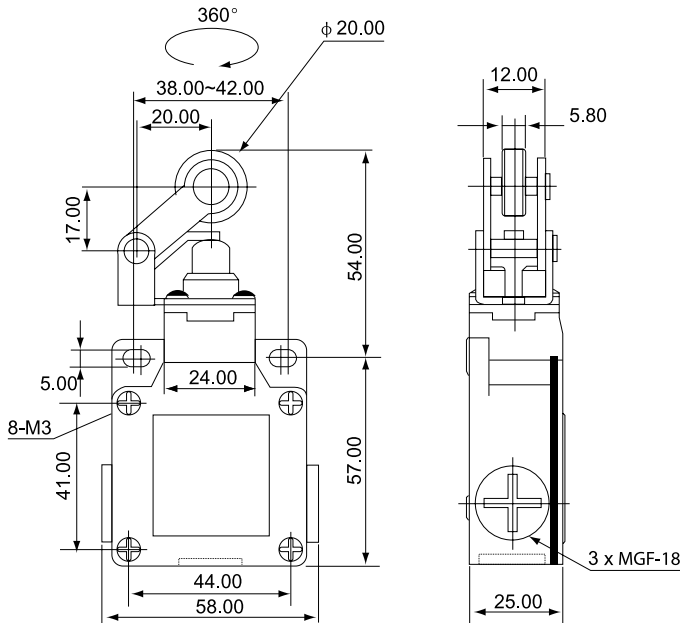


Version with roller bumper on arm

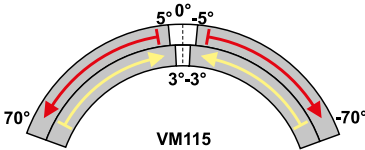
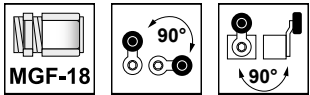


Operating distance (mm)

TRACON
VM121

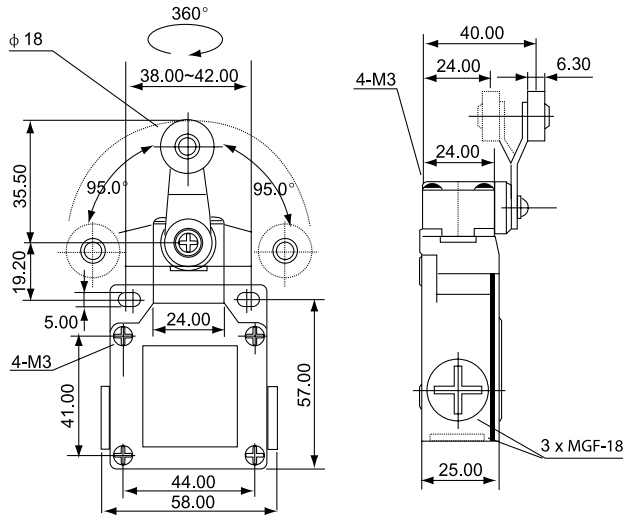


Version with twisting arm

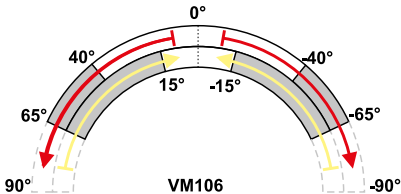
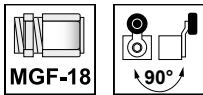


Operating distance (°)

TRACON
VM115

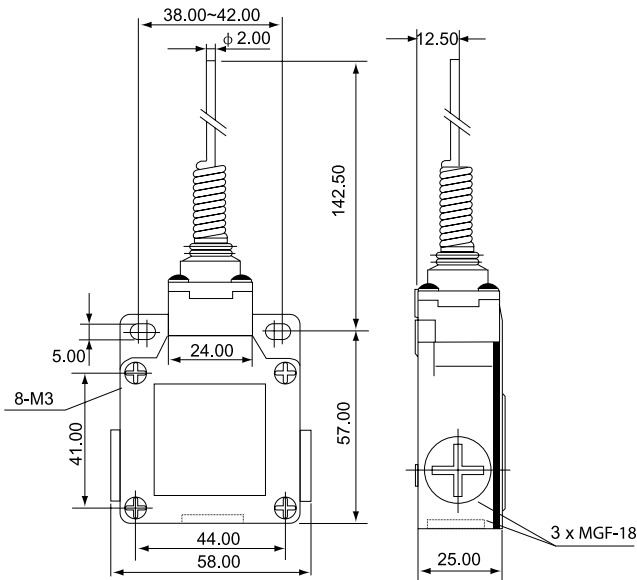


Version with spring stick

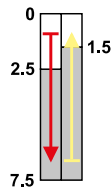
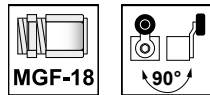


Operating distance (°)

TRACON
VM106

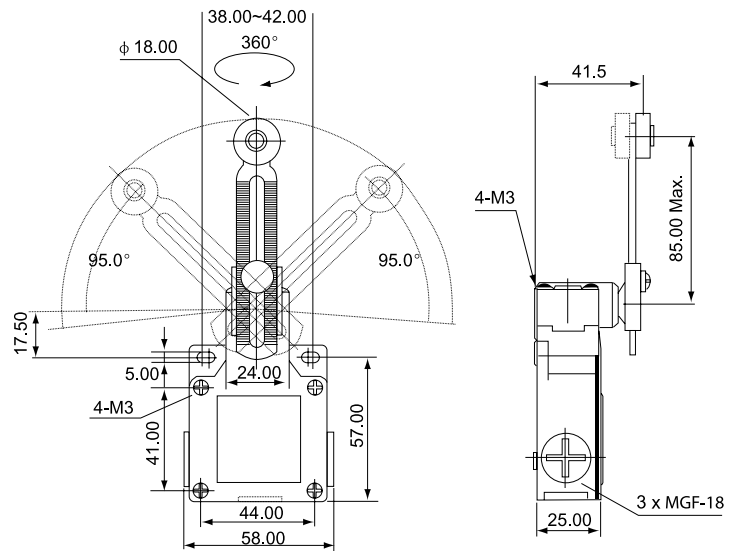


Version with cone bumper

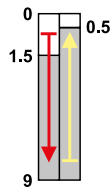
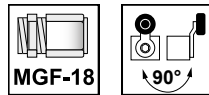


Operating distance (mm)

TRACON
VM145

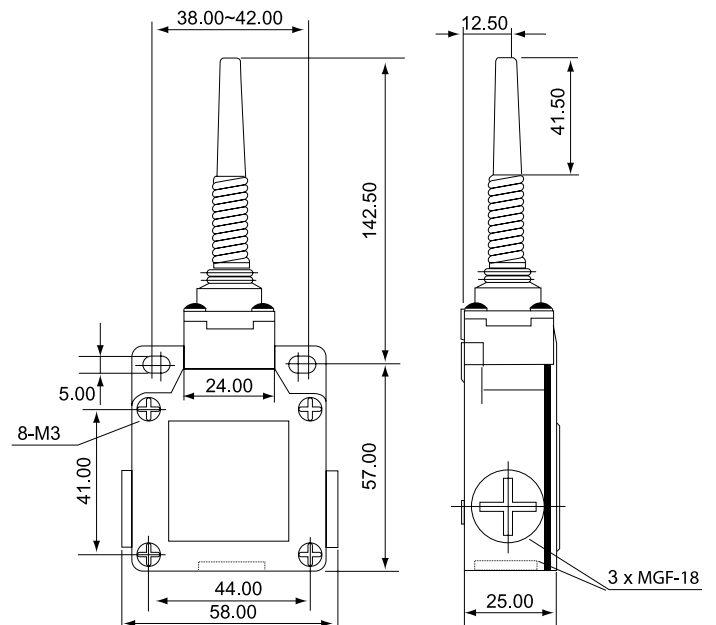


Version with roller bumper

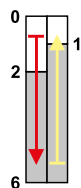
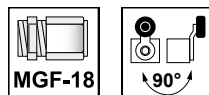


Operating distance (mm)

TRACON
VM171

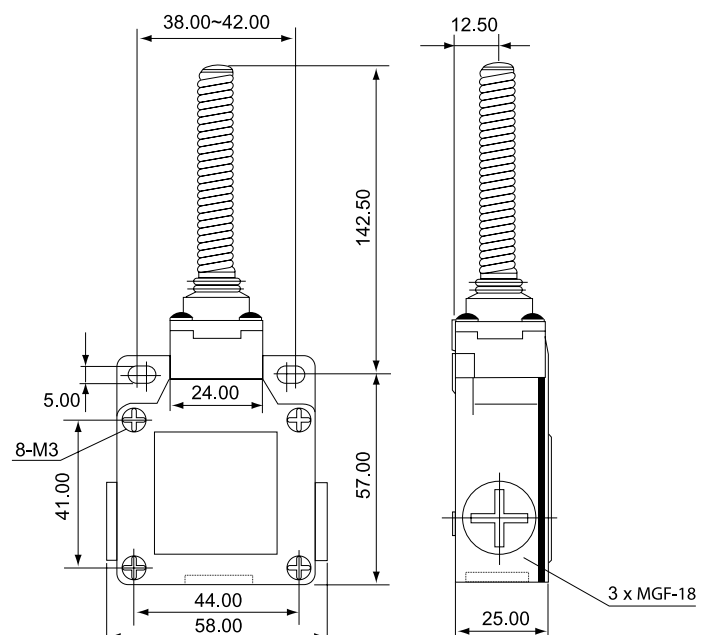


Version with roller bumper on arm



Operating distance (mm)

TRACON
VM181



SENSORS



CO218A

CARBON-MONOXIDE (CO) ALARM SENSOR

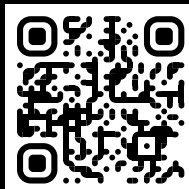
SD133A

WIRELESS SMOKE DETECTOR

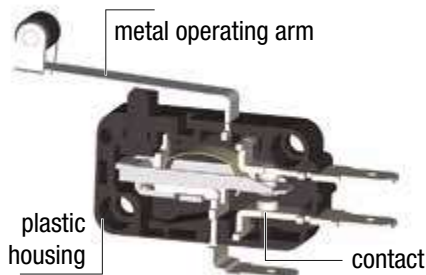
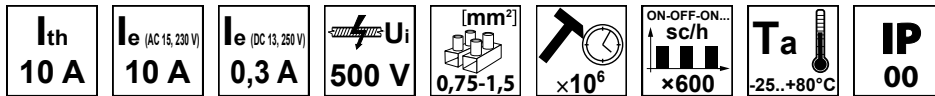


SD101LD

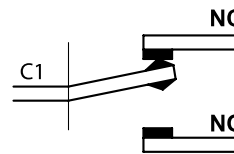
WIRELESS SMOKE DETECTOR



KW limit switches (micro switches)



Type of contact: C


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

Version with bumper

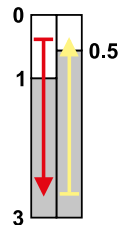


TRACON

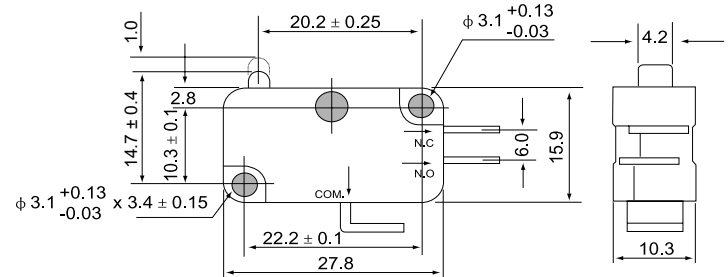


KW3-01 6,3×0,8 mm

KW3-05 4,8×0,5 mm



Operating distance (mm)



Version with spring handle

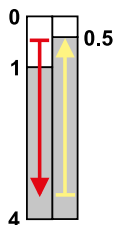


TRACON

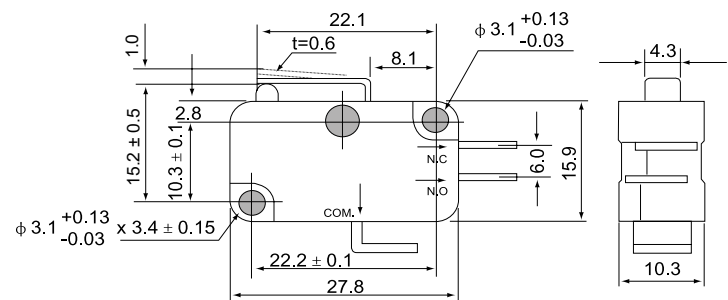


KW3-11 6,3×0,8 mm

KW3-15 4,8×0,5 mm



Operating distance (mm)



Version with spring handle

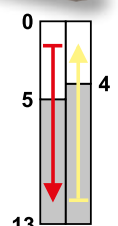


TRACON

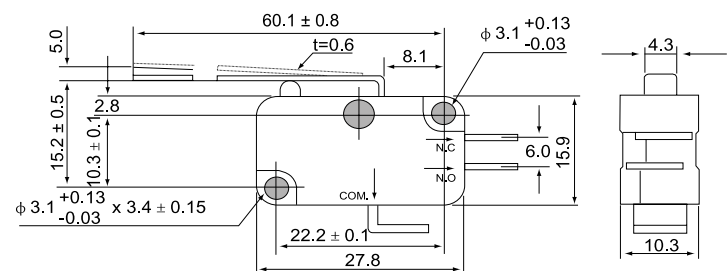


KW3-21 6,3×0,8 mm

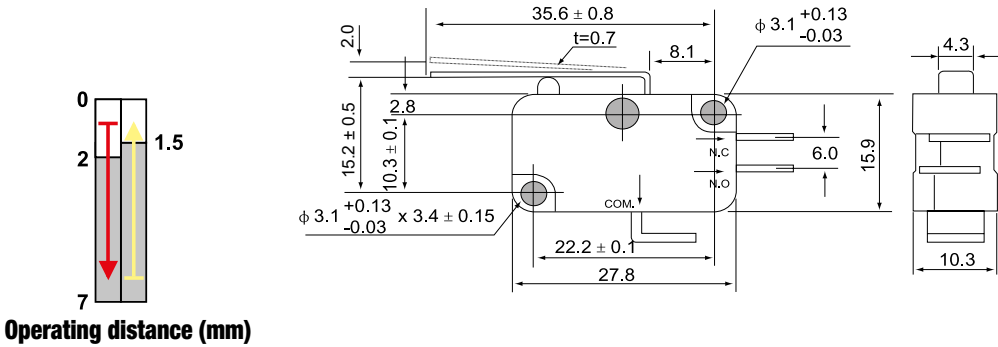
KW3-25 4,8×0,5 mm



Operating distance (mm)

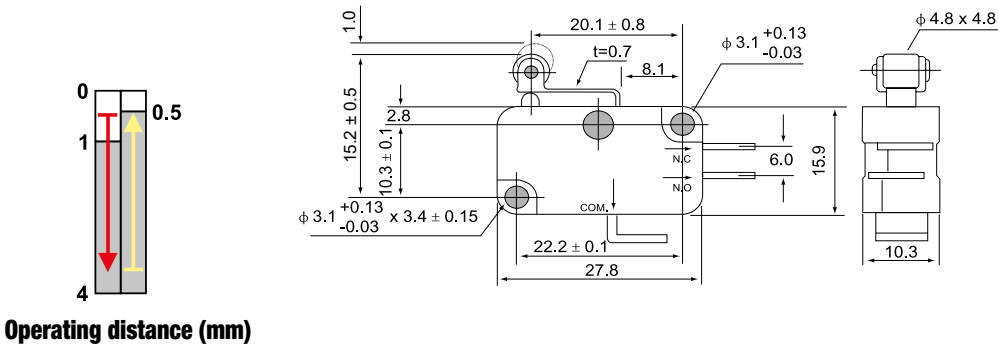


Version with spring handle



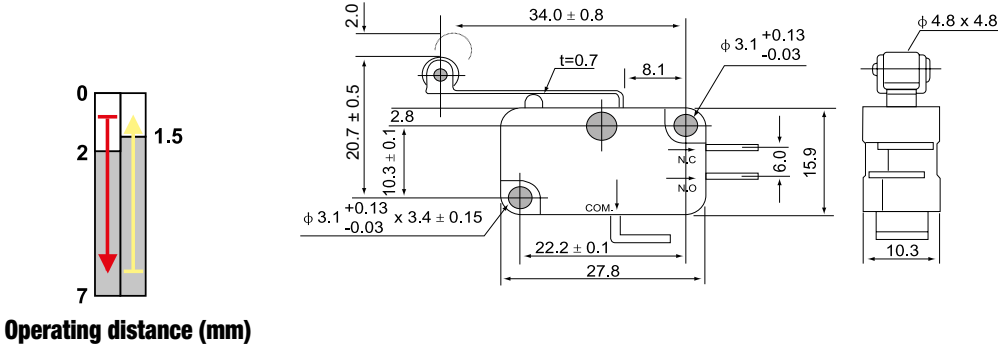
TRACON	
KW3-31	6,3×0,8 mm
KW3-35	4,8×0,5 mm

Version with spring handle and roll



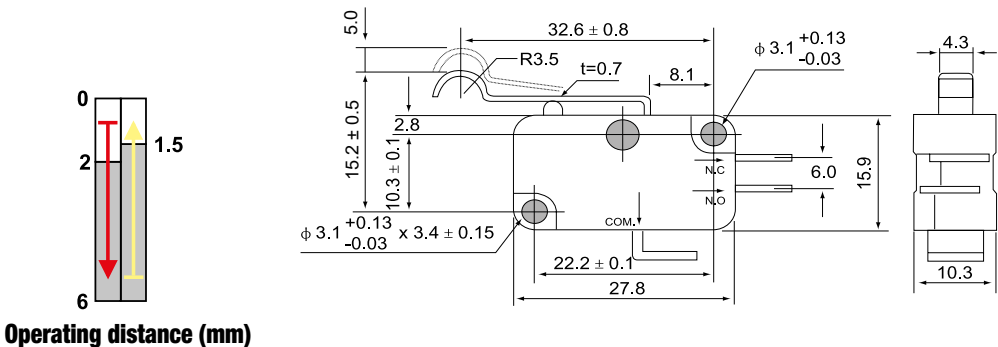
TRACON	
KW3-41	6,3×0,8 mm
KW3-45	4,8×0,5 mm

Version with spring handle and roll



TRACON	
KW3-51	6,3×0,8 mm
KW3-55	4,8×0,5 mm

Version with spring handle



TRACON	
KW3-61	6,3×0,8 mm
KW3-65	4,8×0,5 mm

Pushbuttons, basic

I_e (AC 1, 230 V)
6 A

I_e (AC 15, 230 V)
3 A

I_e (DC 13, 250 V)
0,27 A

U_i
660 V

$[mm^2]$
0,5-2,5

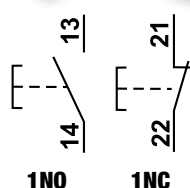
$\times 10^6$

F_{on}
max. 20 N

T_a
-25...+40°C

22 mm

22 mm



TRACON



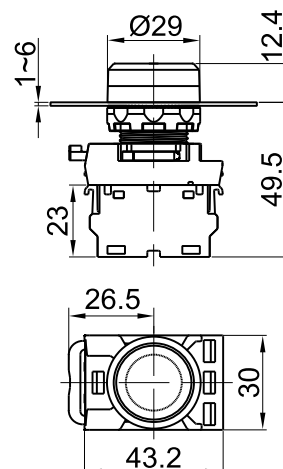
NYG3-BK	
NYG3-G	
NYG3-W	
NYG3-Y	
NYG3-B	
NYG3-R	

page
K/32

1 × NO
1 × NO
1 × NO
1 × NO
1 × NO
1 × NC

RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1



Push-switches, basic

I_e (AC 1, 230 V)
6 A

I_e (AC 15, 230 V)
3 A

I_e (DC 13, 250 V)
0,27 A

U_i
660 V

$[mm^2]$
0,5-2,5

$\times 10^6$

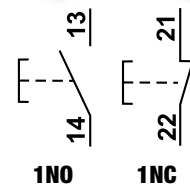
F_{on}
max. 20 N

F_{off}
max. 15 N

T_a
-25...+40°C

22 mm

22 mm



TRACON



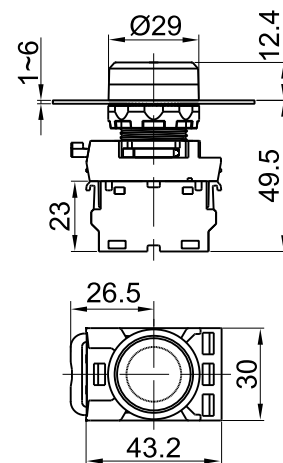
NYK3-BK	
NYK3-G	
NYK3-W	
NYK3-Y	
NYK3-B	
NYK3-R	

page
K/32

1 × NO
1 × NO
1 × NO
1 × NO
1 × NO
1 × NC

RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1



Pushbuttons, protruding

I_e (AC 1, 230 V)
6 A

I_e (AC 15, 230 V)
3 A

I_e (DC 13, 250 V)
0,27 A

U_i
660 V

$[mm^2]$
0,5-2,5

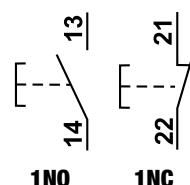
$\times 10^6$

F_{on}
max. 20 N

T_a
-25...+40°C

22 mm

22 mm



TRACON



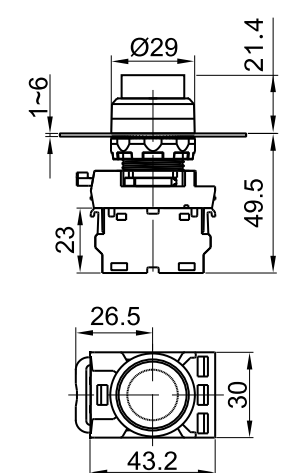
NYG3-HBK	
NYG3-HG	
NYG3-HW	
NYG3-HY	
NYG3-HB	
NYG3-HR	

page
K/32

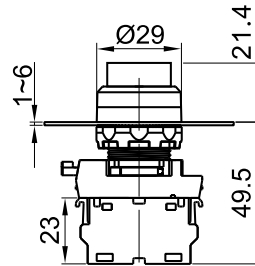
1 × NO
1 × NO
1 × NO
1 × NO
1 × NO
1 × NC

RELEVANT STANDARD
EN 60947-1

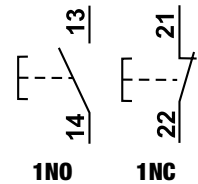
RELEVANT STANDARD
EN 60947-5-1



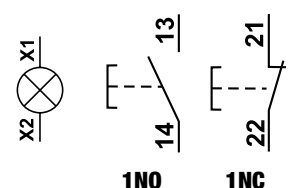
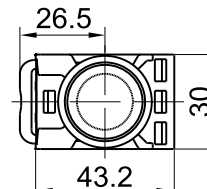
TRACON



RELEVANT STANDARD
EN 60947-5-1



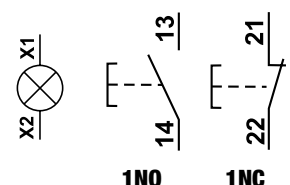
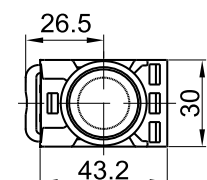
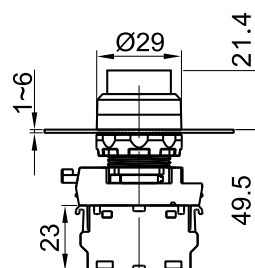
TRACON



RELEVANT STANDARD
EN 60947-5-1



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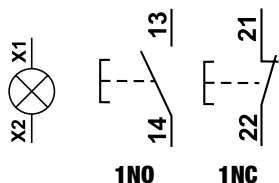


Push-switches with light

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} max. 20 N	F_{off} max. 15 N	T_a -25...+40°C	22 mm	Ba9s
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NYK3-L..



NYK3-H..

TRACON

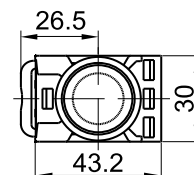
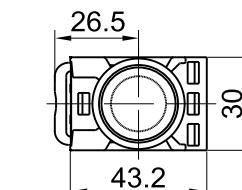
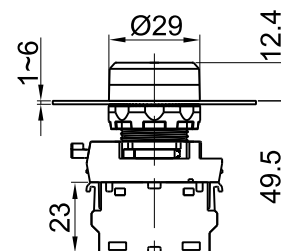
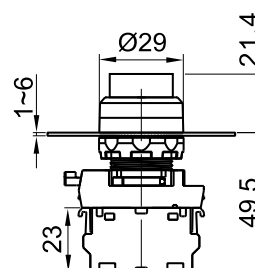


NYK3-LG		page K/32	1 × NO
NYK3-LW			1 × NO
NYK3-LY			1 × NO
NYK3-LB			1 × NO
NYK3-LR		page K/32	1 × NC
NYK3-HLG*			1 × NO
NYK3-HLW*			1 × NO
NYK3-HLY*			1 × NO
NYK3-HLB*			1 × NO
NYK3-HLR*			1 × NC

* Protruding versions (IP42)

RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1



Pushbuttons with signal

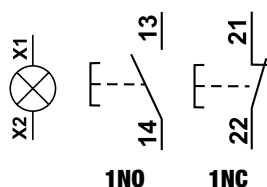
I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} max. 20 N	T_a -25...+40°C	22 mm
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NYG3-P..



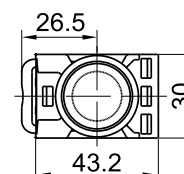
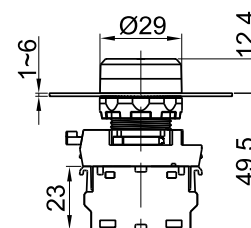
NYG3-P..L



TRACON



NYG3-P1	I	page K/32	1 × NO
NYG3-P4	→		1 × NO
NYG3-P3	→		1 × NO
NYG3-P2	0		1 × NC
NYG3-P1L	I		1 × NO
NYG3-P4L	→		1 × NO
NYG3-P3L	→		1 × NO
NYG3-P2L	0		1 × NC



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Double ON-OFF switches

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	⚡ ×10⁶	F_{on} I max. 20 N	T_a -25...+40°C	22 mm	Pictograms	K/0
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TRACON

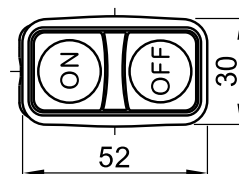
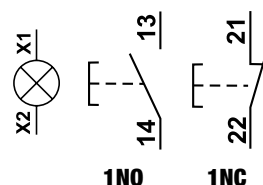
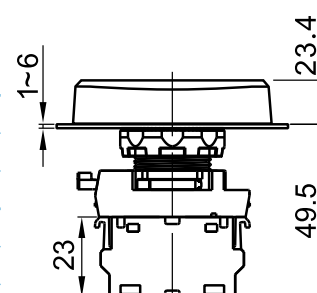


NYG3-D		
NYG3-D1	I	0
NYG3-D2	ON	OFF
NYG3-DL		
NYG3-DL1	I	0
NYG3-DL2	ON	OFF



page
K/32

1×NO+1×NC
1×NO+1×NC
1×NO+1×NC
1×NO+1×NC
1×NO+1×NC
1×NO+1×NC



RELEVANT STANDARD
EN 60947-1

RELEVANT STANDARD
EN 60947-5-1

Knob switches

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	⚡ 30×10⁴	T_a -25...+40°C	22 mm
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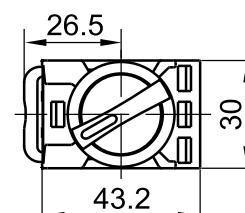
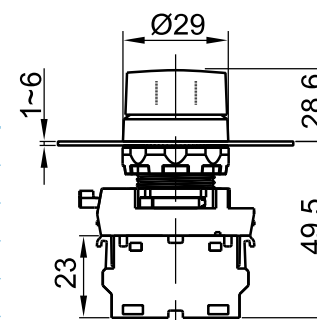
TRACON



Normal	NYK3-S21BK	1
	NYK3-S31BK	2
With spring return	NYK3-S24BK	1
	NYK3-S32BK	2
	NYK3-S33BK	2
	NYK3-S34BK	2

page
K/32

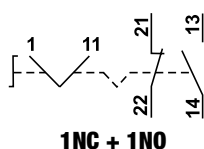
1×NO+1×NC
2 × NO
1×NO+1×NC
2 × NO
2 × NO
2 × NO



RELEVANT STANDARD
EN 60947-1

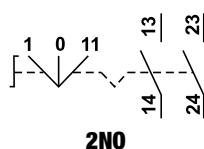
RELEVANT STANDARD
EN 60947-5-1

Two position normal



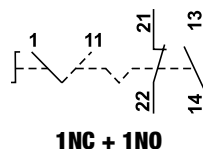
1NC + 1NO

Three position normal



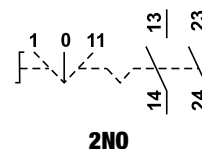
2NO

Two position with spring return



1NC + 1NO

Three position with spring return



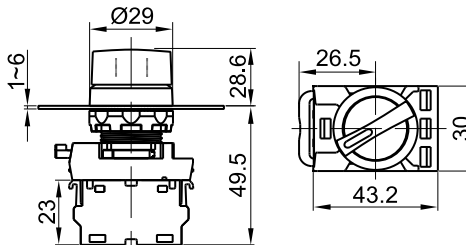
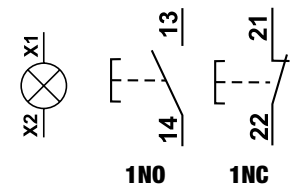
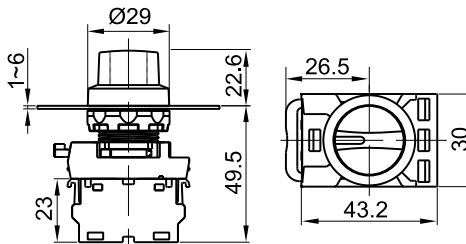
2NO

Ie (AC 15, 230 V) 6 A	Ie (AC 15, 230 V) 3 A	Ie (DC 13, 250 V) 0,27 A	Ui 660 V	 0,5-2,5	 30×10⁴	Ta -25...+40°C			 Ba9s
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 **IP 65**



NYK3-SL21R	$\sqrt[1]{2}$		page K/32	$1 \times NO + 1 \times NC$
NYK3-SL21G	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL21Y	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL21B	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL24R	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL24G	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL24Y	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL24B	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL31R	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL31G	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL31Y	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL31B	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL34R	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL34G	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL34Y	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$
NYK3-SL34B	$\sqrt[1]{2}$			$1 \times NO + 1 \times NC$

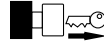


Ie (AC 1, 230 V) 6 A	Ie (AC 15, 230 V) 3 A	Ie (DC 13, 250 V) 0,27 A	Ui 660 V	 0.5-2.5	 5×10⁴	Ta -25...+40°C	
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K/O

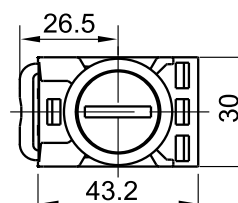
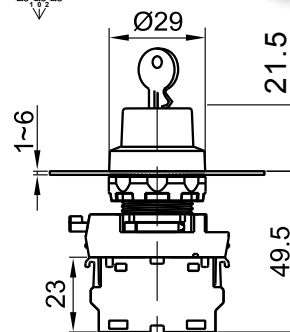
IP 42



Normal	NYK3-K21		page K/32	$1 \times NO + 1 \times NC$	
	NYK3-K31			$1 \times NO + 1 \times NC$	
With spring return	NYK3-K24			$1 \times NO + 1 \times NC$	
	NYK3-K34			$1 \times NO + 1 \times NC$	

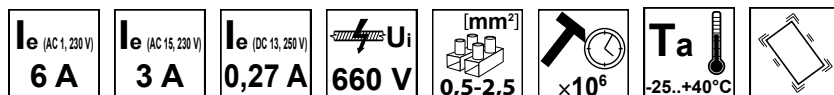
1NC + 1NO

1NC + 1NO

[illegible]

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

Contact units



TRACON



NC
NO

NYG3-CE1

NYG3-CE2

1 × NO

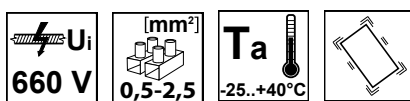
1 × NC

NO -3 -4

NC -1 -2



Lighting unit



TRACON



NYG3-S0C

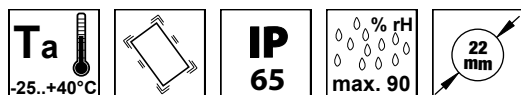
Ba9s

X1 X2



K/44

Protection covers



TRACON			TRACON		
		L × W × H (mm)			L × W × H (mm)
NYGD-1GR		73 × 71 × 65.5	NYGD-4GR		210 × 71 × 65.5
NYGD-1YE		73 × 71 × 65.5	NYGD-4YE		210 × 71 × 65.5
NYGD-2GR		130 × 71 × 65.5	NYGD-5GR		250 × 71 × 65.5
NYGD-2YE		130 × 71 × 65.5	NYGD-5YE		250 × 71 × 65.5
NYGD-3GR		170 × 71 × 65.5	NYGD-6GR		290 × 71 × 65.5
NYGD-3YE		170 × 71 × 65.5	NYGD-6YE		290 × 71 × 65.5



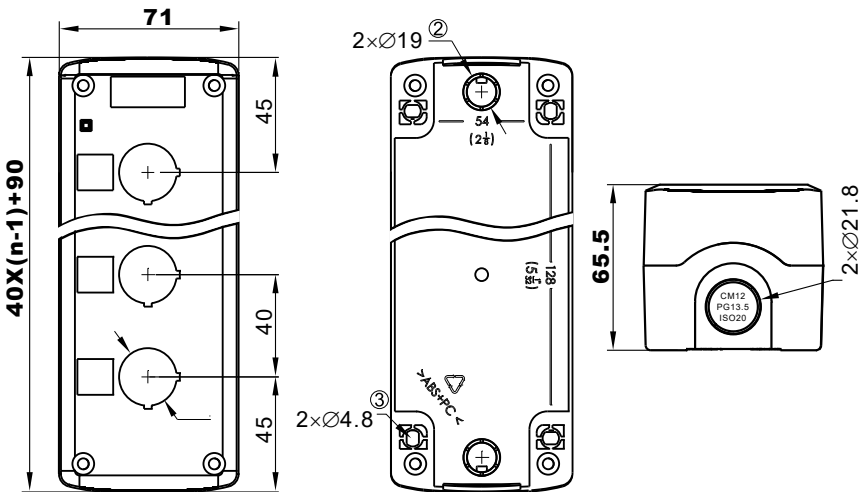
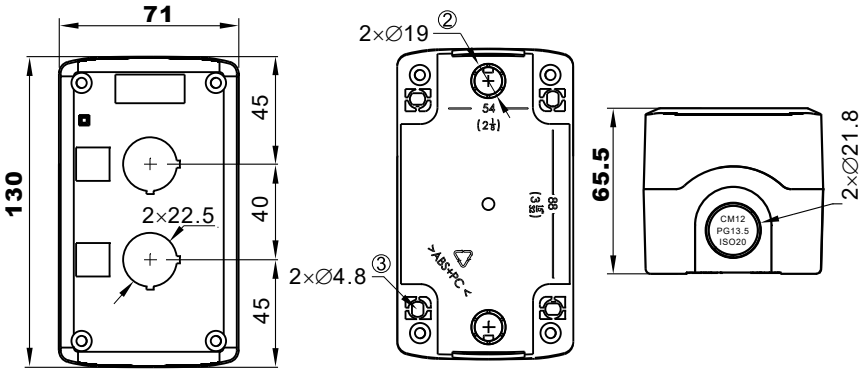
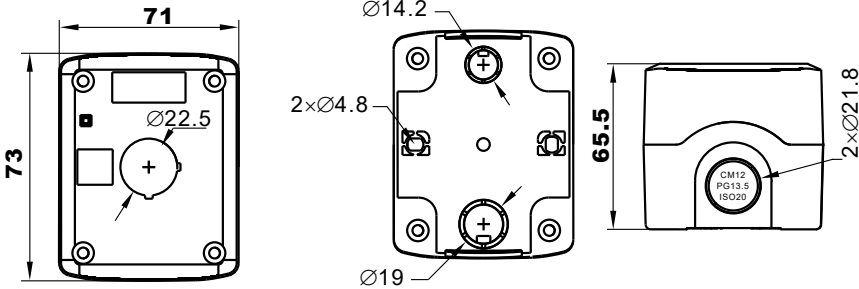
NYGD-1GR



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=50mm/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-ES60H	EMERGENCY STOP plate, d=90mm; h=2mm; ABS
NYG3-ES90	Protective collar, d=30; h=30mm; ABS
NYG3-P30	Protective collar, d=30; h=28mm; ABS
NYG3-PH30	Protective collar, d=60mm; h=30mm; ABS
NYG3-P60	Fastening ring to NYGD-..., d=22mm; ABS
NYGD-FR	EMERGENCY STOP plate, d=60mm, h=8mm, ABS
NYG3-PH65	Protective collar, W=65mm, H=80mm, D=38mm, ABS



NYG3-CAP



NYG3-LH



NYG3-BLP



NYGR25/22



NYGD-FR



NYG3-SCAP



NYG3-LCAP



NYG3-ES..



NYP3-P..



NYG3-PH30



NYG3-PH65



NYGR3..



Voltage meter, Ammeter, Buzzer



660 V



10 A gG



IP 65



22 mm



-10...+40 °C



Pictograms

K/0

TRACON

 U_m I_m 

NYG3-VR		LED	24-500 V AC	—	—	
NYG3-VG		LED	24-500 V AC	—	—	
NYG3-VY		LED	24-500 V AC	—	—	
NYG3-AR		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	—	✓	



NYG3-AR



NYG3-VR

NYG3-BFR..



CT



NYG3-AY



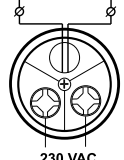
NYG3-AG



NYG3-VY



NYG3-VG

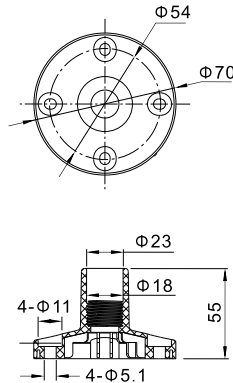
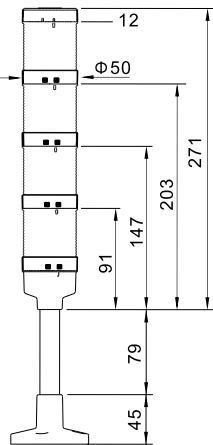
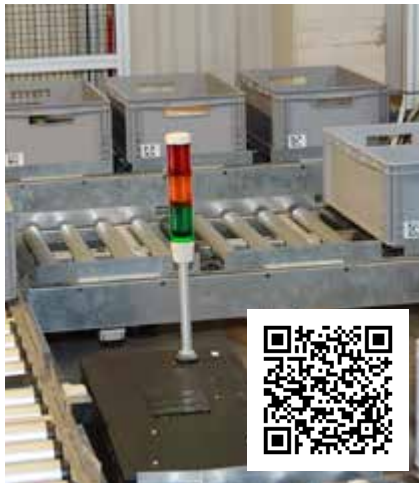


230 VAC

LED warning lamp vertical base



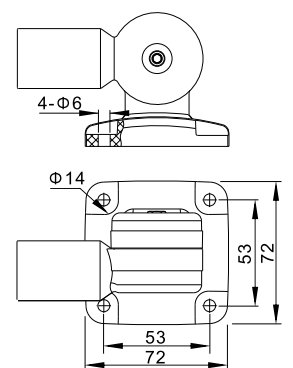
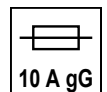
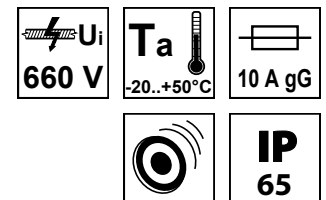
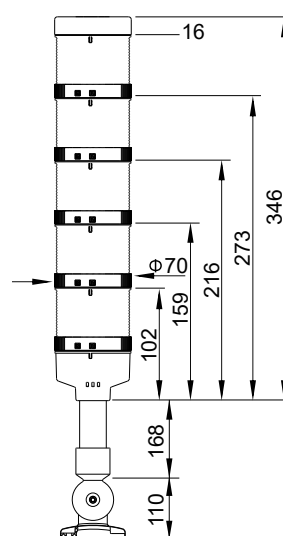
TRACON	U _m					
NYG3-50RYG	AC 230 V				—	—
NYG3-50RYGB	AC 230 V					—
NYG3-50RYGBW	AC 230 V					
NYG3-50RYGM	AC/DC 24 V				—	—
NYG3-50RYGBM	AC/DC 24 V					—
NYG3-50RYGBWM	AC/DC 24 V					



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

LED warning lamp base kit

TRACON	U _m		
NYG3-70KITAC230	230V AC		80 dB
NYG3-70230R	230V AC		—
NYG3-70230Y	230V AC		—
NYG3-70230G	230V AC		—
NYG3-70230W	230V AC		—
NYG3-70230B	230V AC		—
NYG3-70KITACDC24	24V AC/DC		80 dB
NYG3-7024R	24V AC/DC		—
NYG3-7024Y	24V AC/DC		—
NYG3-7024G	24V AC/DC		—
NYG3-7024W	24V AC/DC		—
NYG3-7024B	24V AC/DC		—



NYG3-70KITAC230,
NYG3-70KITACDC24



NYG3-70230R,
NYG3-7024R



NYG3-70230Y,
NYG3-7024Y



NYG3-70230G,
NYG3-7024G

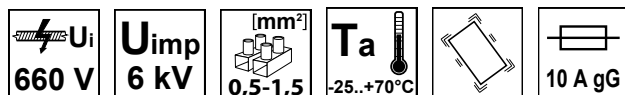


NYG3-70230W,
NYG3-7024W



NYG3-70230B,
NYG3-7024B

LJL type LED signal lamps



Ø 16 mm versions

TRACON

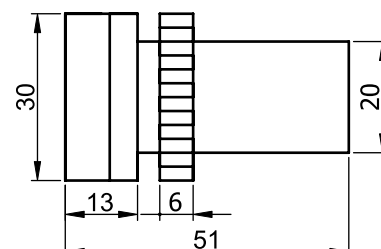
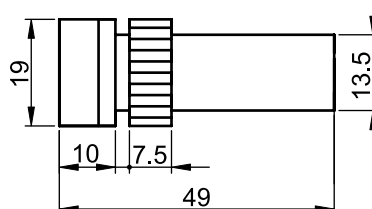
IP 65		U _m
LJL16-RA		12 V AC/DC
LJL16-RC		24 V AC/DC
LJL16-RD		48 V AC/DC
LJL16-RE		230 V AC/DC
LJL16-RF		400 V AC
LJL16-GA		12 V AC/DC
LJL16-GC		24 V AC/DC
LJL16-GD		48 V AC/DC
LJL16-GE		230 V AC/DC
LJL16-GF		400 V AC
LJL16-YA		12 V AC/DC
LJL16-YC		24 V AC/DC
LJL16-YD		48 V AC/DC
LJL16-YE		230 V AC/DC
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

IP 65		U _m	IP44
LJL22-RA		12 V AC/DC	
LJL22-RC		24 V AC/DC	
LJL22-RD		48 V AC/DC	
LJL22-RE		230 V AC/DC	
LJL22-RF		400 V AC	
LJL22-GA		12 V AC/DC	
LJL22-GC		24 V AC/DC	
LJL22-GD		48 V AC/DC	
LJL22-GE		230 V AC/DC	
LJL22-GF		400 V AC	
LJL22-YA		12 V AC/DC	
LJL22-YC		24 V AC/DC	
LJL22-YD		48 V AC/DC	
LJL22-YE		230 V AC/DC	
LJL22-YF		400 V AC	
LJL22-WA		12 V AC/DC	
LJL22-WC		24 V AC/DC	
LJL22-WD		48 V AC/DC	
LJL22-WE		230 V AC/DC	
LJL22-WF		400 V AC	
LJL22-BA		12 V AC/DC	
LJL22-BC		24 V AC/DC	
LJL22-BD		48 V AC/DC	
LJL22-BE		230 V AC/DC	
LJL22-BF		400 V AC	

NYGD-1GR

page
K/32

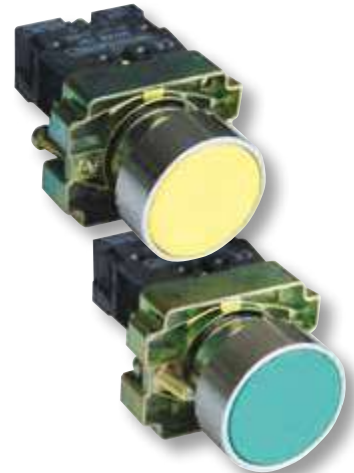
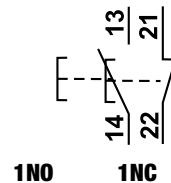
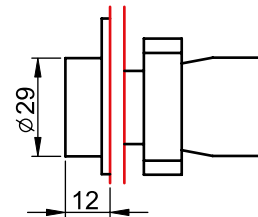
Simple pushbuttons



I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} I max. 20 N	T_a -25...+70°C	22 mm
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TRACON

IP 42	IP 42 + IP 42	IP 65	NC NO
NYGBA21	NYGBA21T	NYGD-1GR	1 × NO
NYGBA31Z	NYGBA31ZT		1 × NO
NYGBA51S	NYGBA51ST	page K/32	1 × NO
NYGBA61K	NYGBA61KT		1 × NO
NYGBA42P	NYGBA42PT		1 × NC



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RELEVANT STANDARD
EN 60947-5-1

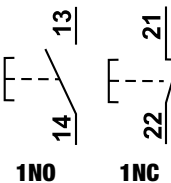
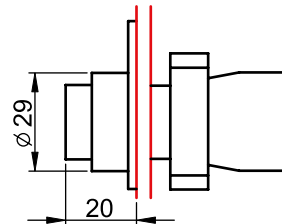
Projecting pushbuttons



I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} I max. 20 N	T_a -25...+70°C	22 mm
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TRACON

IP 42	IP 42 + IP 42	IP 65	NC NO
NYGBL21	NYGBL21T	NYGD-1GR	1 × NO
NYGBL31Z	NYGBL31ZT		1 × NO
NYGBL51S	NYGBL51ST	page K/32	1 × NO
NYGBL61K	NYGBL61KT		1 × NO
NYGBL42P	NYGBL42PT		1 × NC



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RELEVANT STANDARD
EN 60947-5-1

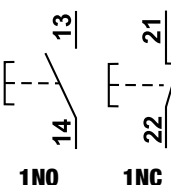
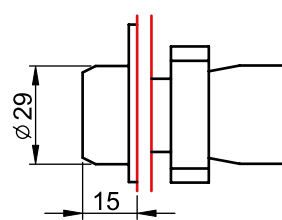
Pushbuttons with rubber boot



I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} I max. 20 N	T_a -25...+70°C	22 mm
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TRACON

IP 55	IP 55 + IP 42	IP 65	NC NO
NYGBP21	NYGBP21T	NYGD-1GR	1 × NO
NYGBP31Z	NYGBP31ZT		1 × NO
NYGBP51S	NYGBP51ST	page K/32	1 × NO
NYGBP61K	NYGBP61KT		1 × NO
NYGBP42P	NYGBP42PT		1 × NC



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RELEVANT STANDARD
EN 60947-5-1

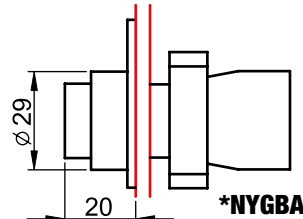
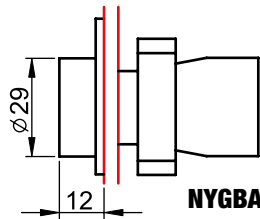
Pushbuttons with symbols

Ie (AC 1, 230 V) 6 A	Ie (AC 15, 230 V) 3 A	Ie (DC 13, 250 V) 0,27 A	 Ui 660 V	 [mm²] 0,5-2,5	 ×10⁶	F_{on}  max. 20 N	Ta  -25...+70°C		 22 mm	 Pictograms	K/O
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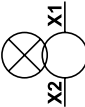
TRACON

	 + 			 NC  NO
NYGBA3351	NYGBA3351T		NYGD-1GR page K/32	1 × NO
NYGBA3341	NYGBA3341T			1 × NO
NYGBA3311Z	NYGBA3311ZT			1 × NO
NYGBA4222P	NYGBA4222PT			1 × NC
NYGBA4322P*	NYGBA4322PT*			1 × NC

* Protruding versions



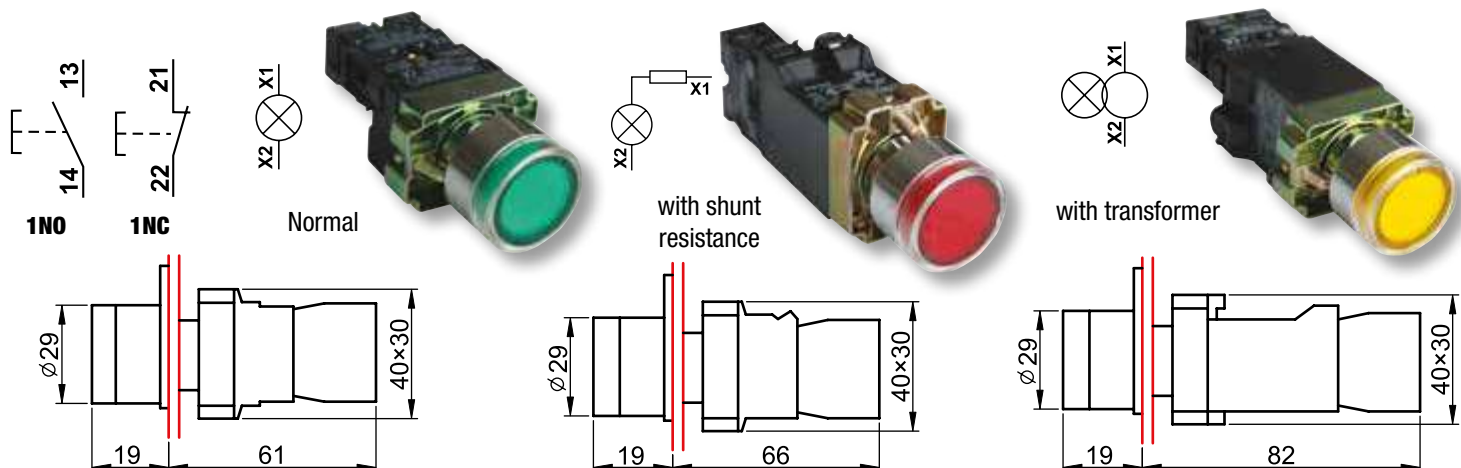
Pushbuttons with built-in signal light (Ba9s)

TRACON							
	 IP 42	 + 				U_m	 Ba9s
	NYGBW33Z	—		NYGD-1GR page K/32	1 × NO	max. 400 V	NYGI230*
	NYGBW33S	NYGBW33ST			1 × NO	max. 400 V	NYGI230*
	NYGBW33K	NYGBW33KT			1 × NO	max. 400 V	NYGI230*
	NYGBW33P	NYGBW33PT			1 × NC	max. 400 V	NYGI230*
	NYGBW3371Z	NYGBW3371ZT		NYGD-1GR page K/32	1 × NO	230-240 V	NYGI130**
	NYGBW3571S	NYGBW3571ST			1 × NO	230-240 V	NYGI130**
	NYGBW3471P	NYGBW3471PT			1 × NC	230-240 V	NYGI130**
	NYGBW3341Z	—		—	1 × NO	230-240 V	NYGI6**
	NYGBW3541S	—			1 × NO	230-240 V	NYGI6**
	NYGBW3441P	—			1 × NC	230-240 V	NYGI6**
	NYGBW3351Z	—			1 × NO	400 V	NYGI6**
	NYGBW3551S	—			1 × NO	400 V	NYGI6**
	NYGBW3451P	—			1 × NC	400 V	NYGI6**

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

We deliver the signal lamps without light source.

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

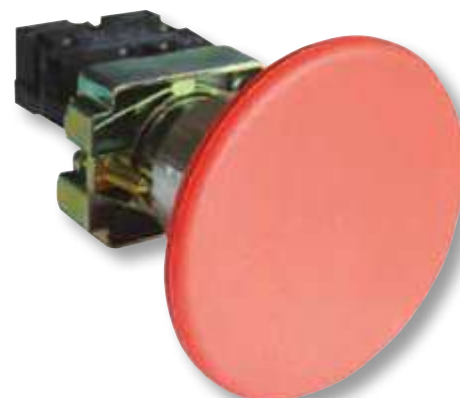
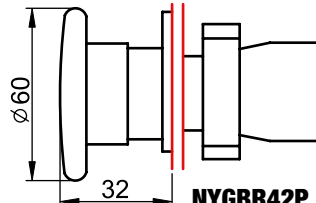
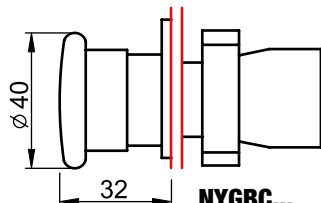
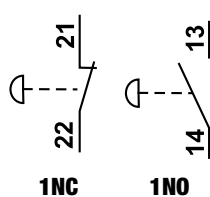


Pushbuttons with mushroom head

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} max. 20 N	T_a -25...+70°C	22 mm	Pictograms	K/0
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TRACON

IP 42	IP42	IP42	IP65	NC NO	40 mm
NYGBC21	NYGBC21T	-	NYGD-1GR	1 × NO	
NYGBC31Z	NYGBC31ZT	-	page K/32	1 × NO	
NYGBC51S	NYGBC51ST	-		1 × NO	
NYGBC61K	NYGBC61KT	-		1 × NO	
NYGBC42P	NYGBC42PT	NYGBC42PTS	NYGD-1YE	1 × NC	
NYGBR42P	NYGBR42PT	NYGBR42PTS	page K/32	1 × NC	60 mm



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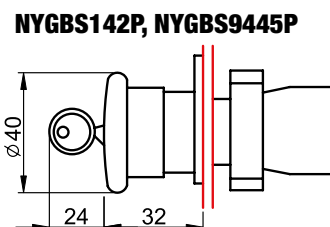
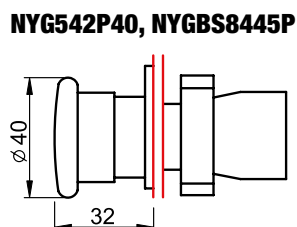
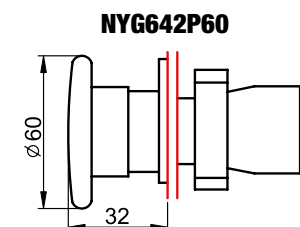
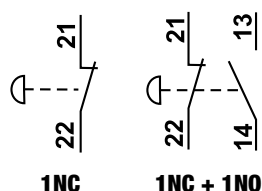
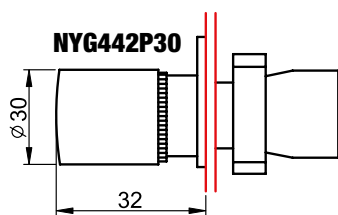
RELEVANT STANDARD
EN 60947-5-1

Emergency pushbuttons with mushroom head

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on} max. 20 N	F_{off} max. 15 N	T_a -25...+70°C	Pictograms	K/0
--	---	--	--------------------------------------	---	------------------------	---	--	--	-------------------	------------

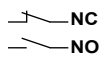
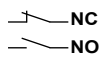
TRACON

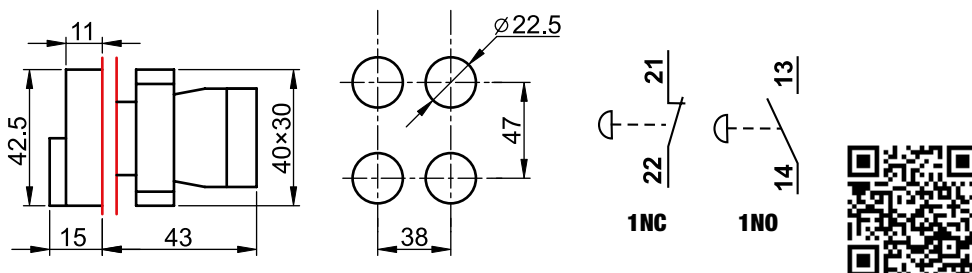
IP 42	IP42	IP42	IP65	NC NO	40 mm
NYG442P30	NYG442P30T	NYG442P30TS	NYGD-1GR	1 × NC	30 mm
NYG542P40	NYG542P40T	NYG542P40TS	NYGD-1YE	1 × NC	40 mm
NYG642P60	NYG642P60T	NYG642P60TS	page K/32	1 × NC	60 mm
NYGBS8445P	NYGBS8445PT	NYGBS8445PTS		1 × NC+1 × NO	40 mm
NYGBS142P	NYGBS142PT	NYGBS142PTS		1 × NC	40 mm
NYGBS9445P	NYGBS9445PT	NYGBS9445PTS		1 × NC+1 × NO	40 mm



Double on-off pushbuttons

I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on I} max. 20 N	T_a -25...+70°C	22 mm	Pictograms	K/0
--	---	--	--------------------------------------	---	------------------------	---	--	--------------	-------------------	------------

TRACON					
 IP 42	 + 				
NYKK8325	NYKK8325T	I	0	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)

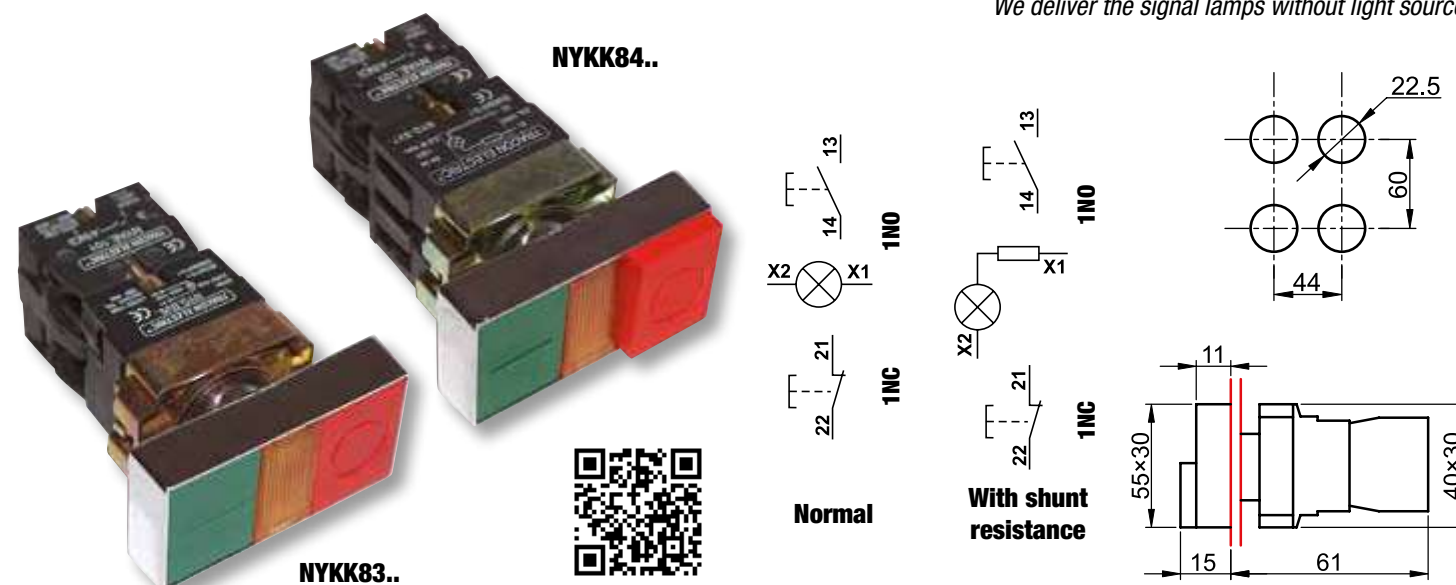
I_e (AC 1, 230 V) 6 A	I_e (AC 15, 230 V) 3 A	I_e (DC 13, 250 V) 0,27 A	U_i 660 V	[mm²] 0,5-2,5	×10⁶	F_{on I} max. 20 N	T_a -25...+70°C	22 mm	Ba9s
--	---	--	--------------------------------------	---	------------------------	---	--	--------------	-------------

TRACON						U_m	
 X2		NYKK8365	I	0	1 × NC+1 × NO	max. 400 V	NYGI230*
 X2		NYKK8465	I	0	1 × NC+1 × NO	max. 400 V	NYGI230*
 X2		NYKK8375	I	0	1 × NC+1 × NO	240 V	NYGI130**
 X2		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.

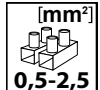
We deliver the signal lamps without light source.



Signal lamps (Ba9s)



U_i
660 V



[mm²]
0,5-2,5



T_a
-25...+70°C



IP 42



22 mm

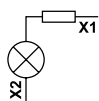
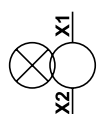


Ba9s

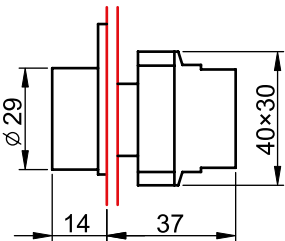


Pictograms

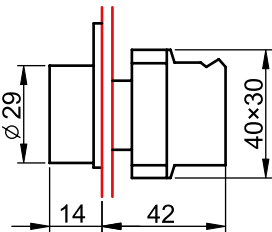
K/0

TRACON				U _m	IP65	
						
	NYGBV61	NYGBV61T		max. 400 V	NYGD-1GR	NYGI230
	NYGBV63Z	NYGBV63ZT		max. 400 V		NYGI230
	NYGBV65S	NYGBV65ST		max. 400 V		NYGI230
	NYGBV66K	NYGBV66KT		max. 400 V		NYGI230
	NYGBV73Z	NYGBV73ZT		230-240 V	page K/32	NYGI130*
	NYGBV74P	NYGBV74PT		230-240 V		NYGI130*
	NYGBV75S	NYGBV75ST		230-240 V		NYGI130*
	NYGBV43Z	NYGBV43ZT		230-240 V		NYGI6*
	NYGBV44P	NYGBV44PT		230-240 V	NYGD-1GR	NYGI6*
	NYGBV45S	NYGBV45ST		230-240 V		NYGI6*
	NYGBV53Z	NYGBV53ZT		400 V		NYGI6*
	NYGBV55S	NYGBV55ST		400 V		NYGI6*

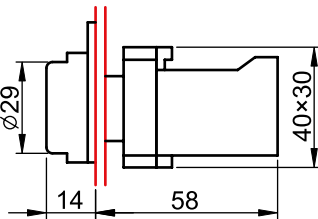
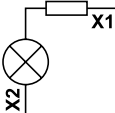
We deliver the signal lamps without light source.
The applicable bulb should be selected in accordance to the operating voltage!
* Signal lamps with ballast are operated under 130 V, by versions with transformer the operating voltage is 6 V.



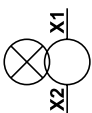
Normal



With shunt resistance



With transformer



TÜV MEEI TEST DOCUMENTATION

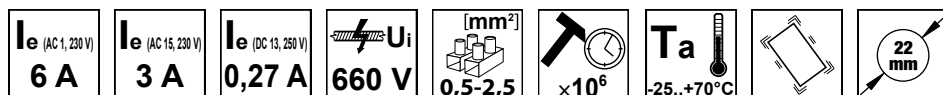
V-15180

RELEVANT STANDARD

EN 62094

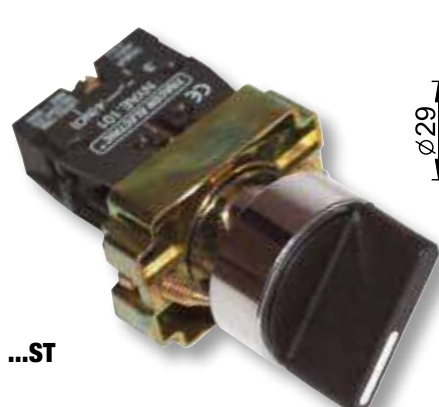


Selector switches

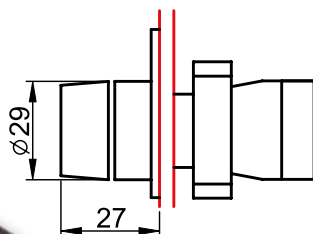


TRACON

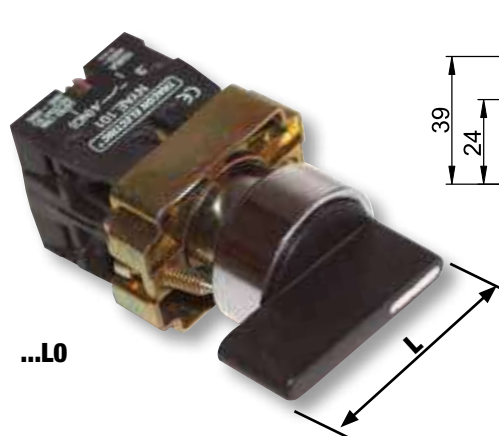
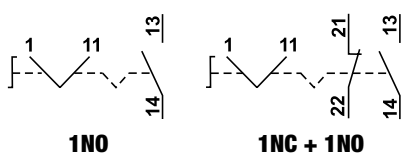
	IP 42	IP 42 + IP 65	IP 65	NC NO	L
Normal	NYBD21KST	NYBD21KSTT	NYGD-1GR	1 × NO	29 mm
	-	NYBJ21KL0T		1 × NO	39 mm
	KBD25ST	KBD25STT		1 × NC+1 × NO	29 mm
	KBJ25L0	KBJ25L0T		1 × NC+1 × NO	39 mm
	NYBD33KST	NYBD33KSTT		2 × NO	29 mm
	NYBJ33KL0	NYBJ33KL0T		2 × NO	39 mm
With spring return	NYBD41KST	NYBD41KSTT	page K/32	1 × NO	29 mm
	NYBJ41KL0	NYBJ41KL0T		1 × NO	39 mm
	NYBD45KST	NYBD45KSTT		1 × NC+1 × NO	29 mm
	NYBJ45KL0	NYBJ45KL0T		1 × NC+1 × NO	39 mm
	NYBD53KST	NYBD53KSTT		2 × NO	29 mm
	NYBJ53KL0	-		2 × NO	39 mm



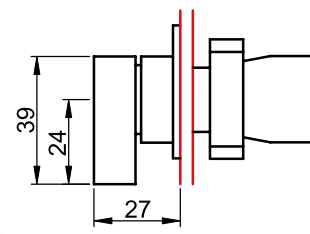
...ST



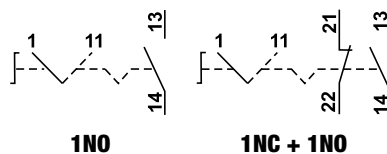
Two position normal



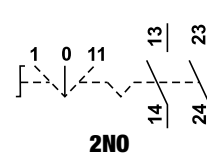
...L0



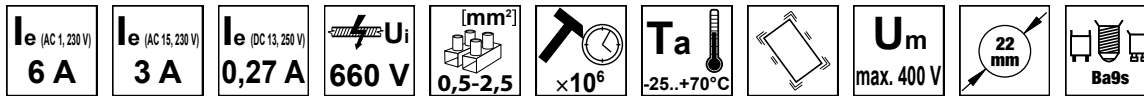
Two position with spring return



Three position with spring return



Selector switches with built-in signal light (Ba9s)



TRACON											
		 + 									
Normal	NYGBK2365Z	NYGBK2365ZT			NYGD-1GR	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			page K/32	1 × NC+1 × NO	NYGLZ *				
	NYGBK3565S	NYGBK3565ST			1 × NC+1 × NO	NYGLS *					
	NYGBK3665K	—			1 × NC+1 × NO	NYGLK *					
	NYGBK3465P	NYGBK3465PT			1 × NC+1 × NO	NYGLP *					

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 installed 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 September 2024. Check our website to stay up-to-date.

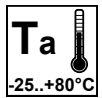
Enclosures

TRACON			W (mm)	H (mm)	x (mm)		IP..
TK/T2+F2/			68	80	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

Relay safety switches



Pictograms

K/O

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

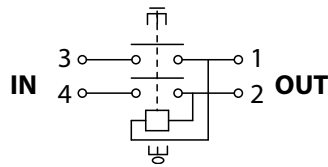
Attention! A device must be connected according to the diagram on the side of the housing.



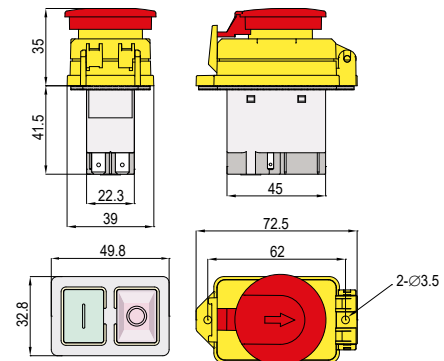
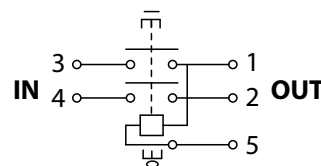
SSTM-01..



TRACON SSTM-01



TRACON SSTM-015



230
V AC

I_e (AC 3, 230 V)
12 A

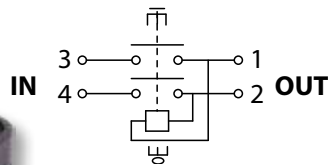


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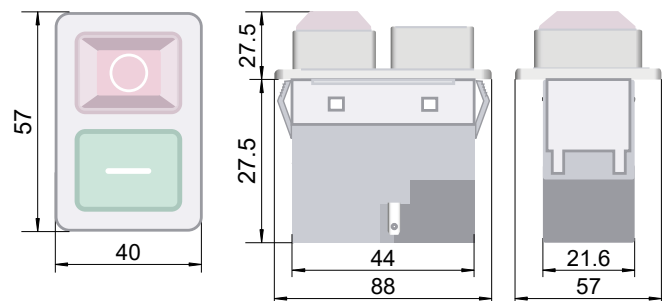
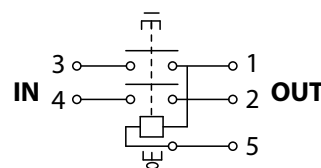
SSTM-02..



TRACON SSTM-02



TRACON SSTM-025



230
V AC

I_e (AC 3, 230 V)
12 A

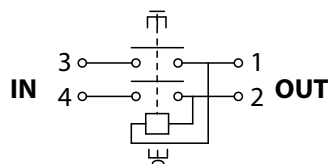


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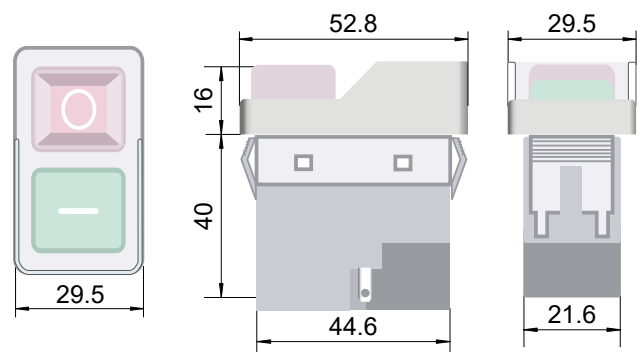
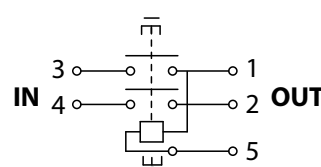
SSTM-03..



TRACON SSTM-03



TRACON SSTM-035



230
V AC

I_e (AC 3, 230 V)
12 A



1~

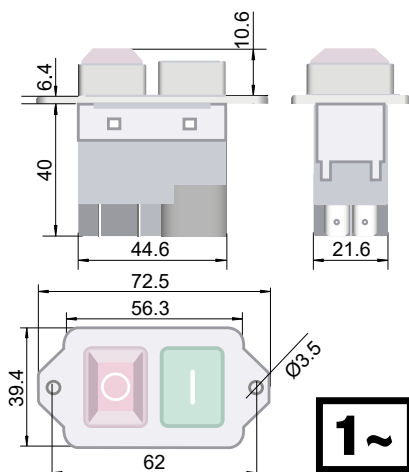
SSTM-04..

**230
V AC**

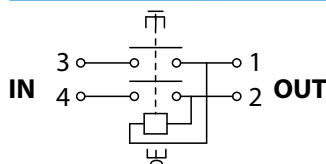
**I_e (AC 3, 230 V)
12 A**

6,3×0,8 mm

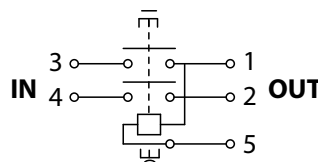
5×10⁴



TRACON SSTM-04



TRACON SSTM-045



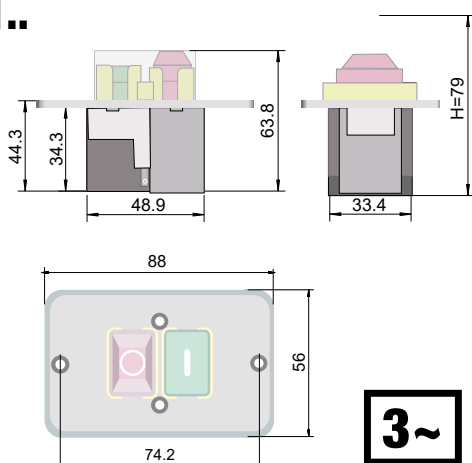
SSTM-31..

**400
V AC**

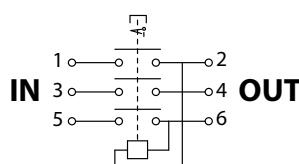
**I_e (AC 3, 400 V)
8 A**

6,3×0,8 mm

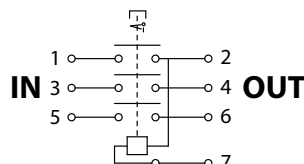
×10⁴



TRACON SSTM-316



TRACON SSTM-317



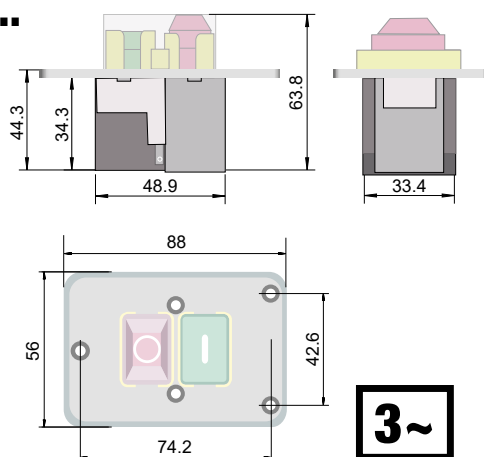
SSTM-32..

**400
V AC**

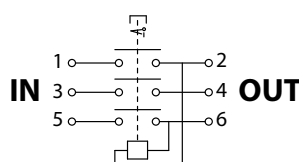
**I_e (AC 3, 400 V)
8 A**

6,3×0,8 mm

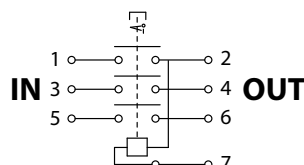
5×10⁴



TRACON SSTM-326



TRACON SSTM-327



Electronics boxes



M/17

SSTM-BOX

Can be fitted to the following versions:

**SSTM-02, -025
SSTM-316, -317
SSTM-326, -327**

113×77×60 mm



**IP
42**



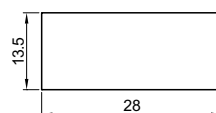
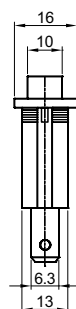
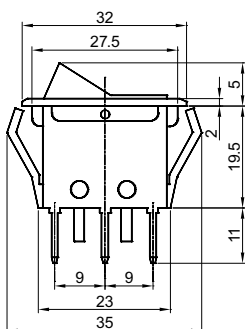
TRACON SSTM-BOX

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

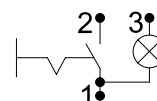
ON-OFF switch


TRACON

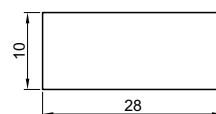
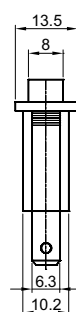
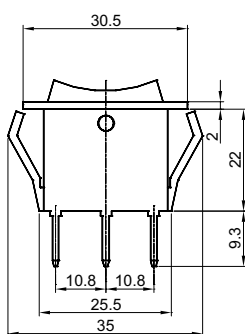
TES-11

6,3 × 0,8 mm

3



Middle 0 position switch

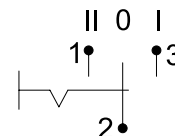

TRACON

TES-12

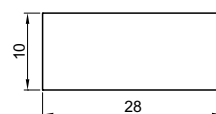
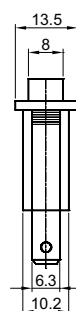
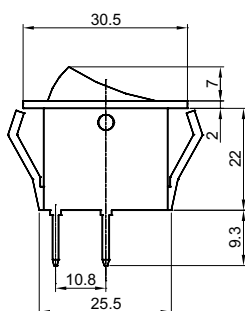
6,3 × 0,8 mm

I-0-II

—



ON-OFF switch

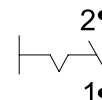

TRACON

TES-13

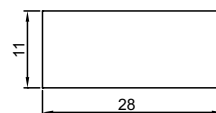
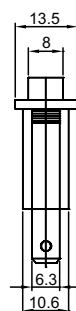
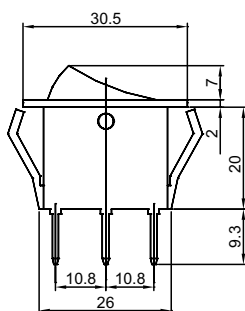
6,3 × 0,8 mm

0-I

—



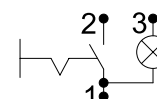
ON-OFF switch


TRACON

TES-21

6,3 × 0,8 mm

✓



TRACON

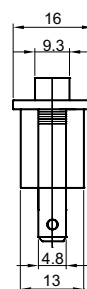
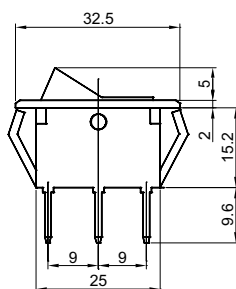
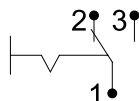


TES-22

4,8 × 0,8 mm

0-1

—



Alternate switch



TRACON

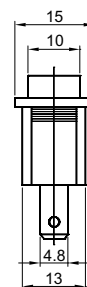
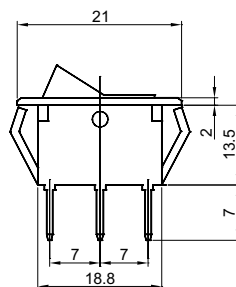
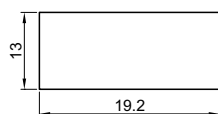
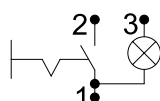


TES-33

4,8 × 0,8 mm

0-1

✓



ON-OFF switch



TRACON

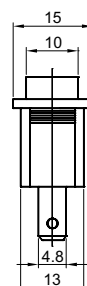
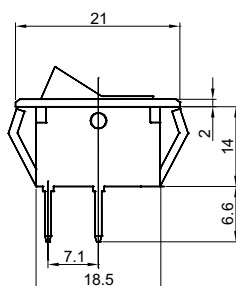
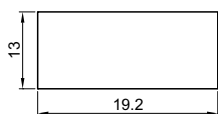
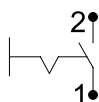


TES-34

4,8 × 0,8 mm

0-1

—



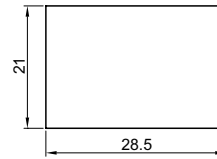
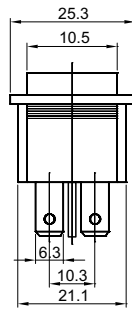
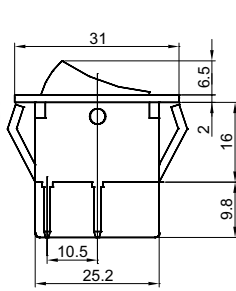
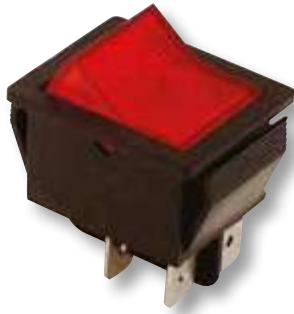
ON-OFF switch



SMART STORAGE 0-24



2 poles switch ON-OFF switch

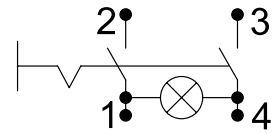


TRACON

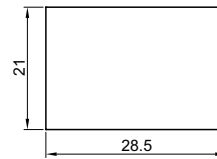
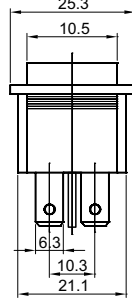
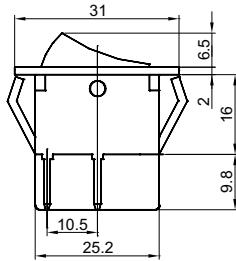


TES-41

6,3 × 0,8 mm



2 poles switch ON-OFF switch

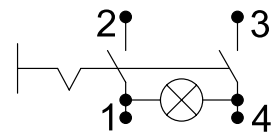


TRACON

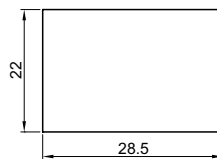
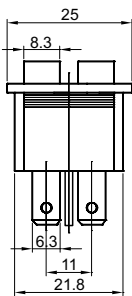
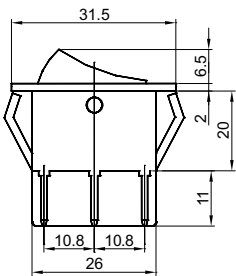


TES-42

6,3 × 0,8 mm



ON-OFF switch

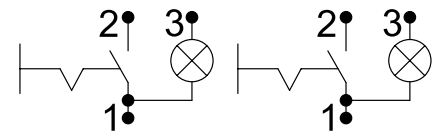


TRACON

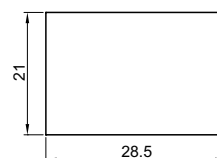
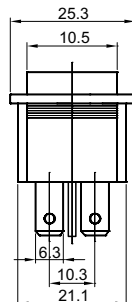
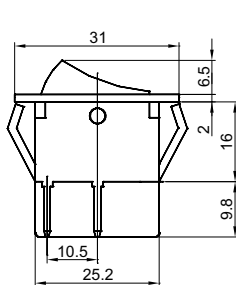


TES-43

6,3 × 0,8 mm



2 poles switch ON-OFF switch

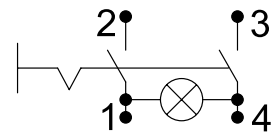


TRACON

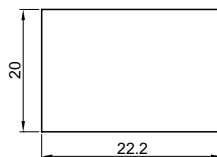
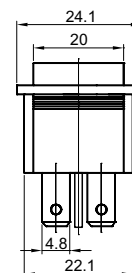
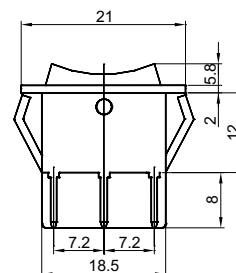


TES-44

6,3 × 0,8 mm



2 poles switch ON-OFF switch

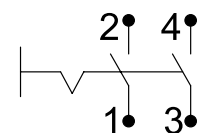


TRACON



TES-51

4,8 × 0,8 mm



TRACON



TES-52

6,3 × 0,8 mm

I-0-II

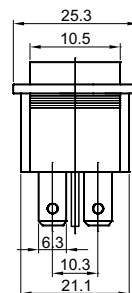
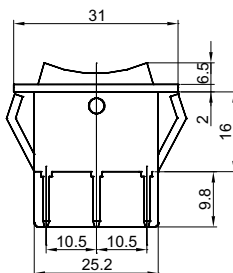
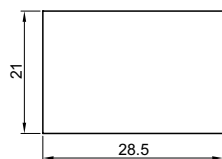
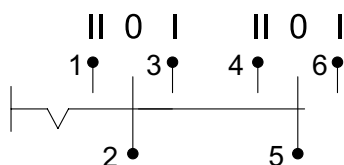
—

TES-52-2

6,3 × 0,8 mm

I-0-II

—

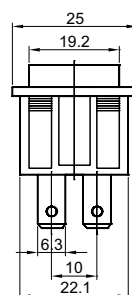
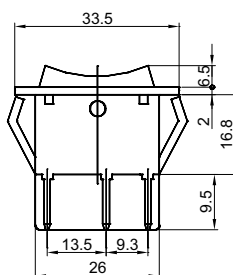
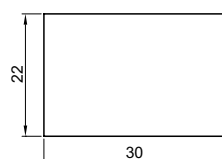


2 poles switch ON-OFF switch



TES-52

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



TES-52-2

TRACON

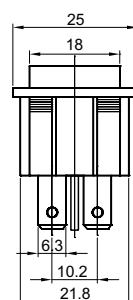
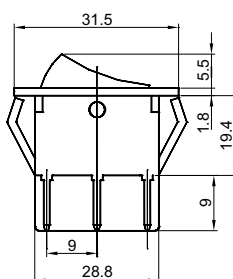
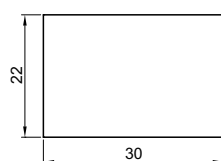
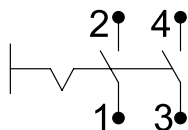


TES-53

6,3 × 0,8 mm

0-I

—



2 poles switch ON-OFF switch



TRACON

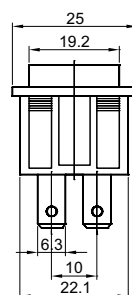
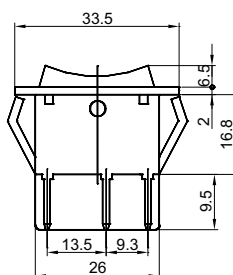
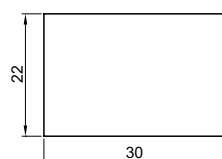
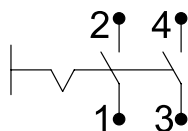


TES-53-1

6,3 × 0,8 mm

0-I

—



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



TRACON

TES-GB

TES-GB1

Can be fitted to the following versions:

TES-42

TES-33

TES-43

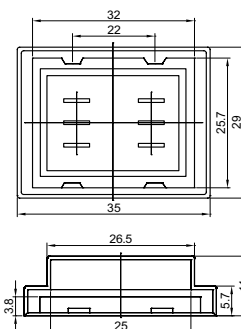
TES-34

TES-44

TES-52

TES-53

TES-52-2



PVC membrane



TES-GB



TES-GB1

One phase isolating transformers TVTR



Pictograms

K/0

TRACON	P _n	U _{pr}	U _{sec}	P _{sec} *	I _{sec}
TVTR-50-A	50 VA	230 V	3-6-12-18-24 V	6,25-12,5-25-37,5-50 VA	2,08 A
TVTR-50-B		230 V	6-12-18-24 V	12,5-25-37,5-50 VA	2,08 A
TVTR-50-C		230 V	12-24-42 V	14,2-28,5-50 VA	1,19 A
TVTR-50-D		230 V	24-42-110 V	10-19-50 VA	0,45 A
TVTR-50-F		230 V	24-230 V	5,2-50 VA	0,21 A
TVTR-50-P		500 V	24 V	50 VA	2,08 A
TVTR-75-P	75 VA	500 V	24 V	75 VA	3.125 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-100-P		500 V	24 V	100 VA	4.16 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-160-P	160 VA	500 V	24 V	160 VA	6.67 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
TVTR-200-P		500 V	24 V	200 VA	8.30 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).

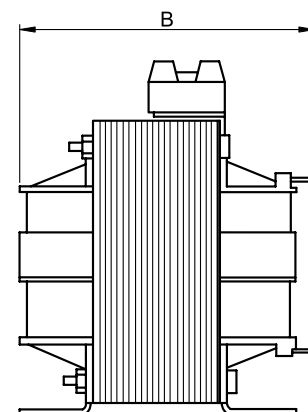
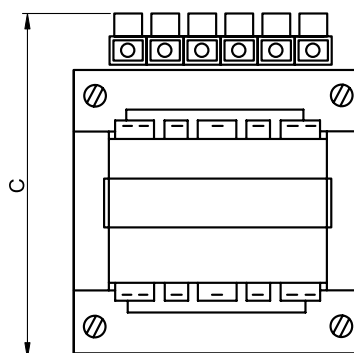
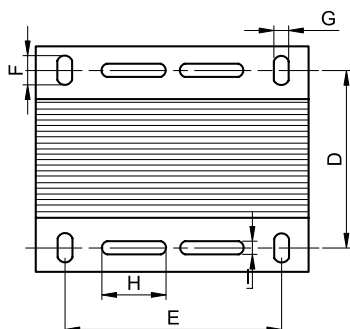
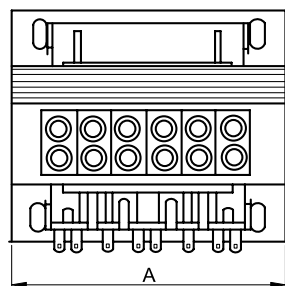
RELEVANT STANDARD
EN 61558-1

RELEVANT STANDARD
EN 61558-2-1

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-250-P		500 V	24 V	250 VA	10,41 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



Monophase isolating safety transformers

230/400
V AC

50/60 Hz



IP 00

IP 20

max. 95 % rH

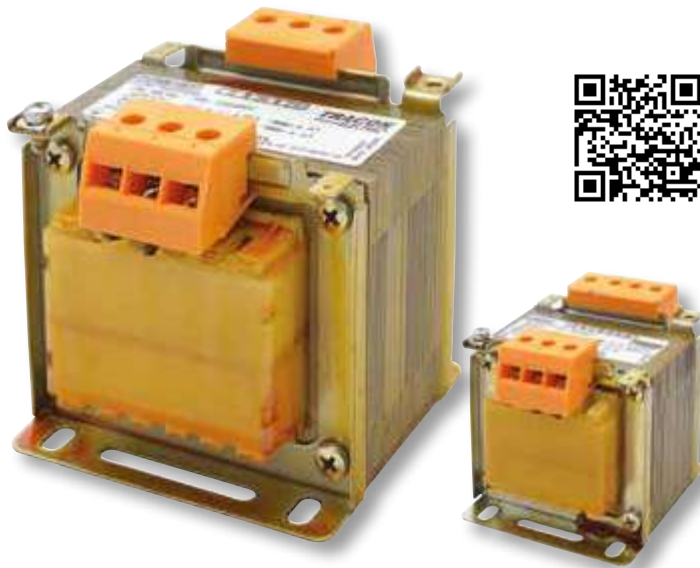
Ta
-5...+40 °CE
+120 °C

Pictograms

K/0

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-100-A		230-400 V	6-12-24 V	25-50-100 VA	4,17 A
TVTRB-100-F	100 VA	230-400 V	24-230 V	10,4-100 VA	0,43 A
TVTRB-100-0		230 V	42 V	100 VA	2,38 A
TVTRB-160-B		230-400 V	12-24 V	80-160 VA	6,67 A
TVTRB-160-F	160 VA	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		230-400 V	12-24 V	125-250 VA	10,42 A
TVTRB-250-F	250 VA	230-400 V	24-230 V	26-250 VA	1,09 A
TVTRB-400-B		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-400-0	400 VA	230 V	42 V	400 VA	9,52 A
TVTRB-600-B		230-400 V	12-24 V	300-600 VA	25 A
TVTRB-600-F		230-400 V	24-230 V	62,6-600 VA	2,61 A
TVTRB-600-0		230 V	42 V	600 VA	14,29 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.

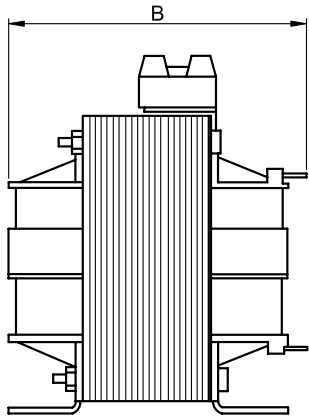
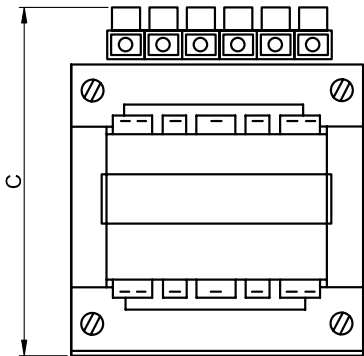
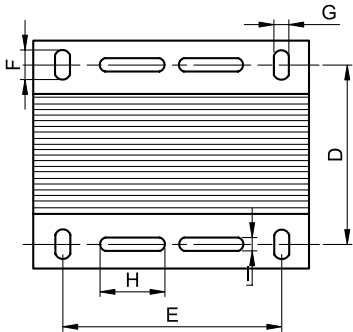
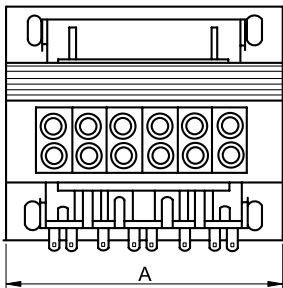
The rated power refers to the highest secondary voltage value. At the other wire-tapping exits the transformer delivers proportionally lower power values (see table).

RELEVANT STANDARD
EN 61558-1

RELEVANT STANDARD
EN 61558-2-4



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



RELEVANT STANDARD
EN 61558-1

RELEVANT STANDARD
EN 61558-2-1

TECS

