



Front dimensions: \varnothing 23.5 mm
Panel cut-out: \varnothing 16.2 mm
Front bezel height: 4 mm



 Product configurator



myritron

→ mYnitron® - tactile, robust, elegant

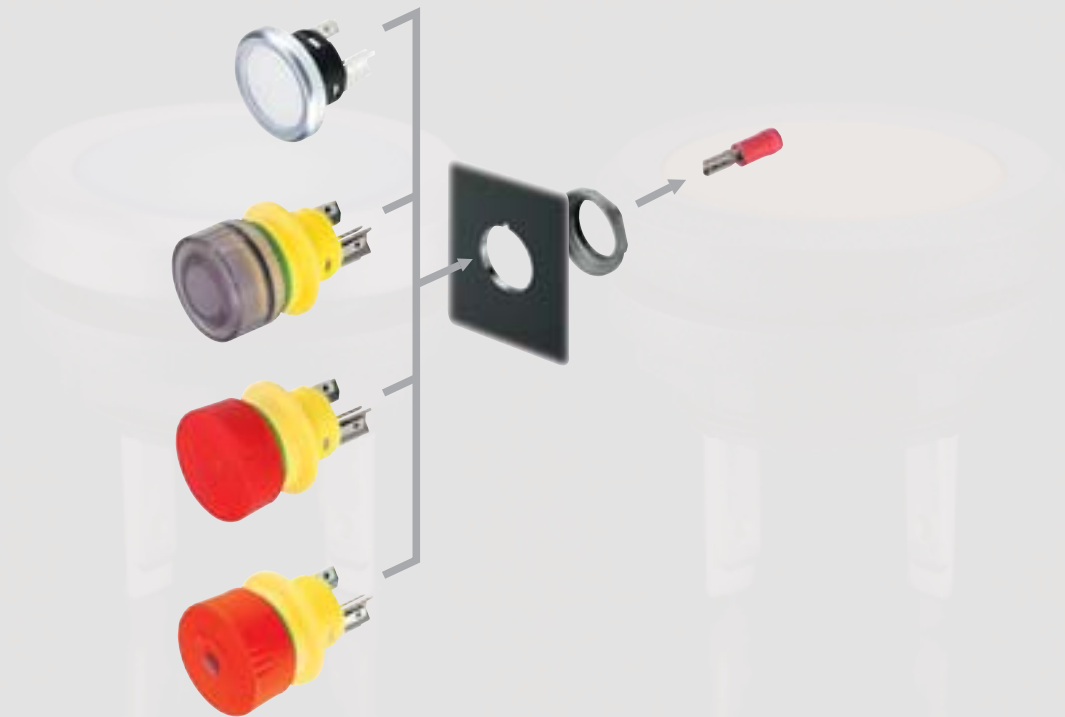
Thanks to its very compact shape the new series mYnitron is ideal for applications with less space. It is designed not only for the classic use in the plant and machine engineering, but also for mobile operating units or small devices. The mYnitron pushbuttons not only convince by their flat shape and the very low mounting depth, but also by a pleasant switching feel and the appealing design. Beside the very short operating travel, particular importance was attached to the tactile feeling by a clear perceptible switching point of the pushbutton. A real new feature in the mYnitron series is the active/inactive emergency-stop acc. to the actual standard EN ISO 13850:2015. The standard allows to indicate the status of an emergency-stop by a corresponding illumination. The mushroom of the active/inactive mYnitron emergency-stop is only illuminated in red in the status of functional operation, otherwise it is colourless and can no longer be recognised as emergency-stop. This makes it easy to identify inactive plant parts or deactivated operating units and thus it considerably improves the safety against a wrong operation in case of an emergency.

- no space problem - mounting depth only 18.0 mm
- panel cut-out Ø 16.2 mm
- good perceptible switching point
- degree of protection IP65 and IP67
- illuminated active/inactive and foolproof emergency-stop acc. to IEC 60 947-5-5

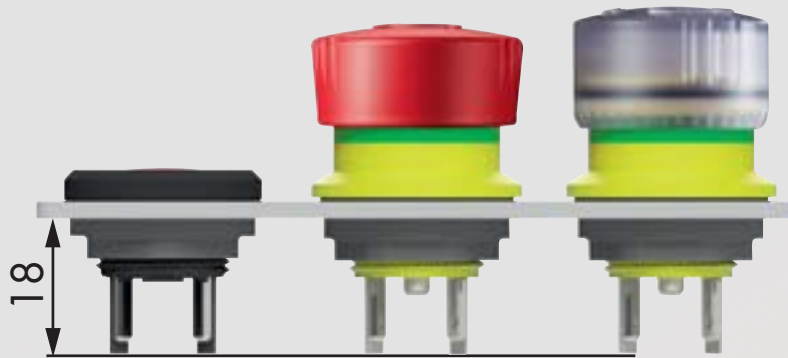


01	Pushbuttons	Seite 408
02	Emergency-stops	Seite 411
03	Emergency-stops active/inactive	Seite 411

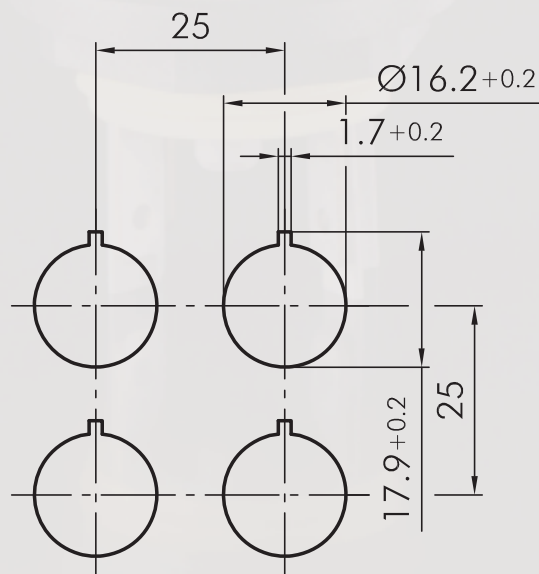
Housing colour



Mounting depth dimensions



Cutout dimensions



General Data

Type reference:	Y(M)T(L)(G)(x)(L_yyyy)(zzzzzz_zz)
Description:	Short-stroke pushbutton mYnitron
Approvals:	CE, cURus
Contact type:	1NO
Degree of protection:	IP65 / IP67
Operation travel:	1,0 mm
Connection type:	Faston terminals 2.8 mm x 0.5 mm
Contact material:	snap disk: stainless steel 1.4310 gold-plat. counter contact: CuZn37, gold-plat
Max. storage temperature:	-40°C ... 80°C
Max. operating temperature:	-25°C ... 70°C
Mechanical life:	500.000 switching cycles
Electrical life (rated load):	500,000 switching cycles at rated load
Contact resistance NO:	< 100 mOhm
Min. current:	10 µA
Min. voltage:	20 mV
Bouncing time NO:	< 5ms

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC12	DC12
Rated insulation voltage Ui:	42 V	42 V
Rated operating voltage Ue:	35 V	35 V
Rated operating current Ie:	100 mA	100 mA
Breaking capacity:	1 W (ohmic load)	1 W (ohmic load)
Continuous thermal current:	100mA	100mA

Technical Data - Lamp

Lamp socket:	none, with integrated LED
Max. lamp voltage:	10...32V
Max. lamp output:	20 mA (18...22 mA)
Definition:	+ ...anode, - ...cathode

Additional data

Mounting aperture:	16.2 mm
Tightening torque (mounting nut):	max. 0.7 Nm
Mounting grid:	25mm x 25mm
Mounting position:	any
Standards:	IEC/EN 60947-5-1
Oversvoltage category:	II
Pollution degree :	2

Electrical features

B10:	600.000
------	---------

Note

Type variants: Y(M)T(L)(G)(x)(L_yyyy)(zzzzzz_zz)	
(M)	... front ring titanium lacquered
(L)	... with illuminating option, LED
(G)	... non-transparent lens
(x)	... available lens colours x = {R...red, Y...yellow, B...blue, G...green, W...white, S...black}
(L_yyyy)	... printed with standard symbol
(zzzzzz_zz)	...customised printing

- Use partially insulated Faston terminals!

Recommended Schlegel type:	"FHT12,8x0.5_01" 0.5-1.5mm ² (AWG 20-16)
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- The Faston terminals are not suitable for hand soldering
- The max. tightening torque mounting nut to be observed (0.7 Nm)!

Data acc. to UL 60947-5-1

Ratings:	max. 30 Vac or 42.4 V peak, 100 mA, Class 2
Illumination:	10-32V DC 20 mA

Remark

- For Class 2 Power Source or Limited Voltage / Limited Current only
- Pour classe 2 source d'alimentation ou tension limitée / courant limitée uniquement

General Data

Type reference:	YV(O)(OO)(H)(OOI)(LOO)(LO)(LAU)(LRO)(L674)
Description:	Emergency-stop head, foolproof
Approvals:	CE, cURus, TÜV_Süd
Contact type:	2NC / 2NC+1NO / 1NC
Degree of protection:	IP65 / IP67 / IP69K
Connection type:	Faston terminals 2.8 mm x 0.5 mm / soldering lug
Contact material:	AgNi / AgNi, gold-plated 5µm
Max. storage temperature:	-40°C ... 80°C
Max. operating temperature:	-25°C ... 70°C
Mechanical life:	50.000
Electrical life (rated load):	50,000 switching cycles at rated load
Contact resistance NO:	< 20 mOhm / < 50 mOhm (Au)
Contact resistance NC:	< 20 mOhm / < 50 mOhm (Au)
Bouncing time NC:	< 10ms
Positive opening contact:	acc. to EN60947-5-1, appendix K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC15	DC13
Rated insulation voltage Ui:	250 V	250V
Rated operating voltage Ue:	35 V	35 V
Rated operating current Ie:	5A	2 A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	5A	Technical Data - Lamp
Lamp socket:	none, with integrated LED	
Max. lamp voltage:	30 V AC/DC	
Max. lamp output:	8mA/4.5mA (at 24 V DC/AC)	
Definition:	X1...anode, X2...cathode	
Additional data		
Mounting aperture:	16.2 mm	
Tightening torque (mounting nut):	0.8 ... 1.5 Nm	
Release:	twist release, left or right	
Mounting position:	any	
Standards:	EN 60947-5-1, EN 60947-5-5, EN ISO 13850	
Material group:	I	
Overvoltage category:	II	
Pollution degree :	2	

Electrical features - 5µm gold-plating, type addition ...AU

Operational voltage:	20 mV...35 V AC/DC
Operational current AC/DC:	1mA ... 100mA
:	1mA ... 100mA
Ld:	20% (NC)
B10d:	250.000

Note

- with switching position indicator
- O= NC contact, I = NO contact, L = lamp
- H = version with soldering lug for manual soldering (YVOH..., YVOOH...)
- _674 ...with aluminum fixing nut for panel thickness: 1.5...3.0 mm
tightening torque fixing nut: 1.2 Nm
- _RO ...0 ohm series resistor, with protective diode (series-connected)
- LED cut-off voltage: max. 75 V (with protective diode)
- If LED, max: 25 mA
- Uf LED, typical: 3.2 V (20mA)
- Use partially insulated Faston clamps (for versions with Faston connections)!
- Recommended Schlegel type: "FHTI2,8x0,5_01"
0.5-1.5mm² (AWG 20-16)
-30°C - 75°C

Additional data for versions without assignment of 3rd contact/illumination (type YVOO):

acc. to IEC/EN 60947-5-1 (VDE 0660 Part 200)	
AC15 B300:	Ue/Ie 240V 1.5A
DC13 Q300:	Ue/Ie 250V 0.27A

Note for version "H" (soldering lug):

When soldering the strands to the soldering lugs make sure that during the soldering process the necessary air and creepage distances between soldering lug and fixing nut are not reduced (possibly caused by solder splashes or protruding strands).

Note for version "_RO" (0 ohm series resistor):

The LED must not be operated without series resistor.

Do not connect terminals X1-X2 directly to voltage. Observe LED data!

Data acc. to UL508, IEC60947-5-5

Tightening torque (mounting nut): 0.8 ... 1.5 Nm (plastic nut)

Rating contact block:	1,2 Nm (metal nut)
Lamp rating:	Silver: 35V AC/DC, 2A; Gold: 35VDC/100mA
Rated power max.:	30 V AC/DC;
	8mA/4.5mA (at 24 V DC/AC)

General Data

Type reference: YVD(O)(OO)(AU)_R0
 Description: Emergency-stop, active/inactive (without diagnostic device), LED without series resistor
 Approvals: CE, cURus, TÜV_Süd
 Contact type: 1NC / 2NC
 Degree of protection: IP65 / IP67
 Connection type: Faston terminals 2.8 mm x 0.5 mm
 Contact material: AgNi / AgNi, gold-plated 5µm (AU)
 Max. storage temperature: -40°C ... 80°C
 Max. operating temperature: -25°C ... 55°C
 Mechanical life: 30.000
 Electrical life (rated load): 30.000 at rated load
 Contact resistance NC: < 20 mOhm/< 50 mOhm (Au)
 Bouncing time NC: < 10ms
 Positive opening contact: acc. to EN60947-5-1, appendix K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC15	DC13
Rated insulation voltage Ui:	250 V	250 V
Rated operating voltage Ue:	35 V	35 V
Rated operating current Ie:	5 A	2 A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	5 A	

Technical Data - Lamp

Lamp socket: none, with integrated 3 mm LED, without series resistor, with protective diode in series
 Definition: X1...anode, X2...cathode
 Additional data
 Mounting aperture: 16.2 mm
 Tightening torque (mounting nut): 0.8 ... 1.5 Nm
 Release: twist release, left or right
 Mounting position: any
 Standards: ISO 13850:2015(E), EN ISO 13850:2015(D), DIN EN ISO 13850:2016-05
 Material group: I
 Overvoltage category: II
 Pollution degree: 2

Electrical features - 5µm gold-plating, type addition AU

Operational voltage: 20 mV...35 V AC/DC
 Operational current AC/DC: 1mA ... 100mA
 Id: 20% (NC)
 B10d: 250.000

Note

- O = NC contact
- LED: 0-Ohm series resistor, with protective diode (series-connected)
- with switching position indicator
- diagnostic unit not included
- use partially insulated Faston clamps
- recommended Schlegel type

"FHT12,8x0,5_01"
 0.5-1.5mm² (AWG 20-16)
 -30°C - 75°C

Illuminated version, status indication active/inactive:

Mushroom "grey": "inactive", no emergency stop
 Mushroom "red": "active" emergency stop

Technical data of LED:

The LED must not be operated without series resistor.
 Do not connect terminals X1-X2 directly to voltage. Observe LED data!
 LED type: (Data sheet_LED_YVD_161220.pdf)
 Protective diode (series-connected): Taiwan Semiconductor, TS4148 RYG, forward voltage max. 1.0V
 LED series resistor: 0-Ohm Typical data at IF=20mA, Tu=25°C: (=recommended amperage)
 Luminous intensity: typ. 450 mcd
 Beam angle: typ. 90°
 Dominant wave length: 618...627 nm, typ. 623 nm
 Average life at 20mA:
 Brightness loss: approx. 11% (after 10,000h at IF=20mA, 15-30°C)
 LED cut-off voltage: max. 70V (with protective diode)
 Max. forward current: 30mA
 Forward voltage LED: typical 2.0V (1.8V...2.3V)

- Safety Instructions:
- The emergency stop must only be used when lighting conditions ensure clear and distinct visibility of the red illuminated (active) mushroom, e.g. in interiors or roofed places without direct sunlight (normal industrial environment).
 - Before using the emergency stop, a systematic safety review of the overall system is required.
 - Depending on the designer's risk assessment, the illumination of the emergency stop must be monitored by means of a "diagnostic unit", and in case of error one has to react in accordance with the risk evaluation.
 - The emergency stop lighting must be checked at regular intervals to ensure its clear and distinct visibility.
 - The emergency stop must be replaced if the clear visibility is no longer guaranteed.
 - Please observe the operation manual
- Standard compliant applications:
- pluggable operator stations
 - wireless operator stations
 - pluggable system components (fixed system components which are only temporarily in operation)

About Us

→ Pushbuttons and Switches

Panel Mount Jacks

Emergency-Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

Terminal Blocks

Type Index

Pushbuttons

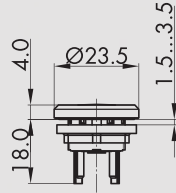
Illustration

Dimensions

Description

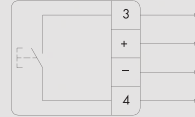
Type

IP65
IP67



Pushbutton, transparent lens

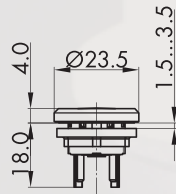
Connection type: Faston terminals 2.8 mm x 0.5 mm



front bezel:	silver-coloured		
lens:	white		YMTW
lens:	red		YMTR
lens:	green		YMTG
lens:	blue		YMTB
lens:	yellow		YMTY

front bezel:	black		
lens:	white		YTW
lens:	red		YTR
lens:	green		YTG
lens:	blue		YTB
lens:	yellow		YTY

IP65
IP67

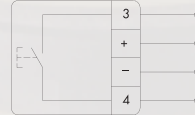


Pushbutton with inscription

standard imprints see nameplates from page 634 (please specify index number)

special inscription on request

Connection type: Faston terminals 2.8 mm x 0.5 mm



front bezel:	silver-coloured		
Lens:	white		YMTW_...

front bezel:	black		
Lens:	white		YTW_...

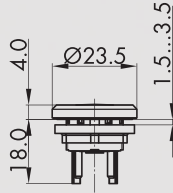
Pushbuttons

Illustration

Dimensions

Description

Type

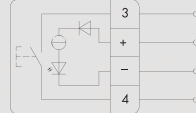


Illuminated pushbutton

incl. white LED

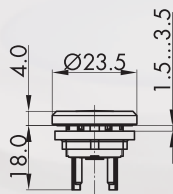
Connection type:

Faston terminals 2.8 mm x 0.5 mm



front bezel:	silver-coloured		
Lens:	white		YMTLW
Lens:	red		YMTLR
Lens:	green		YMTLG
Lens:	blue		YMTLB
Lens:	yellow		YMTLY

front bezel:	black		
Lens:	white		YTLW
Lens:	red		YTLR
Lens:	green		YTLG
Lens:	blue		YTLB
Lens:	yellow		YTLY



Illuminated pushbutton with inscription

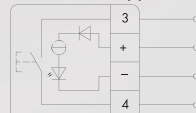
standard imprints see nameplates from page 634 (please specify index number)

special inscription on request

incl. white LED

Connection type:

Faston terminals 2.8 mm x 0.5 mm



front bezel:	silver-coloured		
Lens:	white		YMTLW_...
Lens:	red		YMTLR_...
Lens:	green		YMTLG_...
Lens:	blue		YMTLB_...
Lens:	yellow		YMTLY_...

front bezel	black		
Lens:	white		YTLW_...
Lens:	red		YTLR_...
Lens:	green		YTLG_...
Lens:	blue		YTLB_...
Lens:	yellow		YTLY_...

Pushbuttons

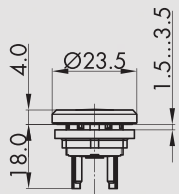
Illustration

Dimensions

Description

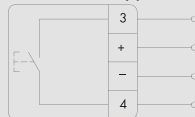
Type

IP65
IP67



Pushbutton, non-transparent lens

Connection type: Faston terminals 2.8 mm x 0.5 mm



front bezel:	silver-coloured		
Lens:	white		YMTGW
Lens:	red		YMTGR
Lens:	green		YMTGG
Lens:	blue		YMTGB
Lens:	yellow		YMTGY
Lens:	black		YMTGS
front bezel:	black		
Lens:	white		YTGW
Lens:	red		YTGR
Lens:	green		YTGG
Lens:	blue		YTGB
Lens:	yellow		YTG Y
Lens:	black		YTGS

Accessories



Faston clamp 2.8 x 0.5, partially insulated, with snap-in pin

FHT12,8x0,5_01

cross section:	0.5-1.5mm ²
AWG:	20-16
material:	brass, partially insulated, with snap-in pin
max. current:	10A
max. voltage:	300V
temperature:	-30°C - 70°C
UL Listed E70188	

Emergency-Stops

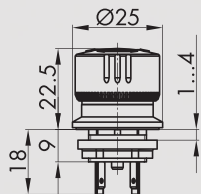
Illustration

Dimensions

Description

Type

IP65
IP67



Active illuminated emergency-stop with status indication active (illuminated) / inactive (non-illuminated)

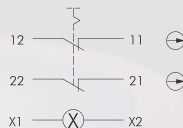
- red illuminated emergency-stop (active) acc. to DIN EN ISO 13850:2016-05
- LED with 0-ohm resistor
- delivery without external LED monitoring
- less mounting depth
- 2 NC

Possible applications, e.g.:

- pluggable or wireless operator stations
- pluggable system components which are stationary available but only temporarily in operation

Not suitable for applications with direct sunlight.

Foolproof:	yes
Switching position indicator:	yes
Anti-lock collar:	no
Release:	twist right or left
Standard:	ISO 13850:2015(E), EN ISO 13850:2015(D), DIN EN ISO 13850:2016-05
Connection type:	Faston terminals 2.8 mm x 0.5 mm

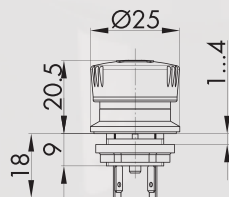


front bezel: yellow
Mushroom head: red/grey



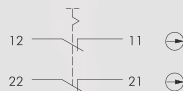
YVDOO_R0

IP65
IP67
IP69K



Emergency-stop - 2NC

Foolproof:	yes
Switching position indicator:	yes
Anti-lock collar:	no
Release:	twist right or left
Standard:	EN 60947-5-1, EN 60947-5-5, EN ISO 13850
Connection type:	Faston terminals 2.8 mm x 0.5 mm



front bezel: yellow
Mushroom head: red



YV00

Emergency-Stops

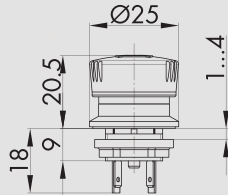
Illustration

Dimensions

Description

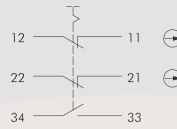
Type

IP65
IP67
IP69K



Emergency-stop - 2NC+1NO

Foolproof: yes
Switching position indicator: yes
Anti-lock collar: no
Release: twist right or left
Standard: EN 60947-5-1, EN 60947-5-5, EN ISO 13850
Connection type: Faston terminals 2.8 mm x 0.5 mm

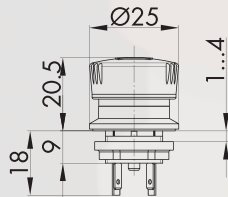


front bezel: yellow
Mushroom head: red



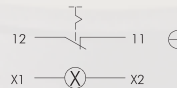
YV001

IP65
IP67



Illuminated emergency-stop - 1NC

Foolproof: yes
Switching position indicator: yes
Anti-lock collar: no
Release: twist right or left
Standard: EN 60947-5-1, EN 60947-5-5, EN ISO 13850
Connection type: Faston terminals 2.8 mm x 0.5 mm

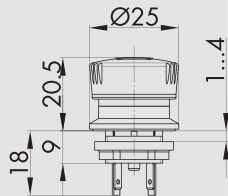


front bezel: yellow
Mushroom head: red



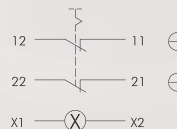
YV10

IP65
IP67



Illuminated emergency-stop - 2NC

Foolproof: yes
Switching position indicator: yes
Anti-lock collar: no
Release: twist right or left
Standard: EN 60947-5-1, EN 60947-5-5, EN ISO 13850
Connection type: Faston terminals 2.8 mm x 0.5 mm



front bezel: yellow
Mushroom head: red



YV100

Accessories for Contact Blocks

Illustration

Dimensions

Description

Type

Accessories



Faston clamp 2.8 x 0.5, partially insulated, with snap-in pin

FHT12,8x0,5_01

cross section: 0.5-1.5mm²
 AWG: 20-16
 material: brass, partially insulated, with snap-in pin
 max. current: 10A
 max. voltage: 300V
 temperature: -30°C - 70°C
 UL Listed E70188

About Us

→ Pushbuttons and Switches

Panel Mount Jacks

Emergency-Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

Terminal Blocks

Type Index