## AR Foot switches



Description of Mini foot switches

- Reduced dimensions: $100 \times 75 \times 34 \mathrm{~mm}$.
- Materials: cover and base made of selfextinguishing ABS.
- Color choice: black or grey base; black, grey, yellow or red cover.
Description of foot switches with covers
- Dimensions: $285 \times 140 \times 145$.
- Materials: base, cover and pedal made of shock resistant Bayblend ${ }^{\circledR}$ FR 90 material (alloyed polycarbonate and ABS).
- Color choice: grey base; grey, yellow or red cover.
- Variations: grey base, half-red cover.

Especially used for emergency stop function.
Note: this emergency stop function must never contain the «locked in neutral position» device.

UL Listed file \#E191693

## Application

Foot switch-operated machines such as: shearing machines, folding machines, spinning lathes, machine tools, wrapping machines, riveting presses, etc.
Foot switches with covers come in three operation formats:

- Free movement: contact position follows pedal movement: actuated when the pedal is pushed down, released when pedal is in a state of rest.
- Foot switch locked in neutral position: same operation as above, after unlocking the pedal with the end of the foot.
- Foot switch latched in low position: same operation as free movement, except that a state of rest is obtained only after having unlatched the pedal with the end of the foot.

General information

## IPM Mini foot switches, IPS Foot switches with covers Description

## Application

Foot switch-operated machines such as: shearing machines, folding machines, spinning lathes, machine tools, wrapping machines, riveting presses, etc.

Foot switches with covers come in three operation formats:

- Free movement (momentary): contact position follows pedal movement: actuated when the pedal is pushed down, released when pedal is in a state of rest.
- Foot switch locked in neutral position: same operation as above, after unlocking the pedal with the end of the foot.
- Foot switch latched in low position (maintained): same operation as free movement, except that a state of rest is obtained only after having unlatched the pedal with the end of the foot.



## Description of foot switches with covers

- Dimensions: $285 \times 140 \times 145$.
- Materials: base, cover and pedal made of shock resistant Bayblend ${ }^{\circledR}$ FR 90 material (alloyed polycarbonate and ABS).
- Color choice: grey base; grey, yellow or red cover.
- Variations: grey base, half-red cover. Especially used for emergency stop function.
Note: this emergency stop function must never contain the «locked in neutral position» device.


Comment: Foot switches with covers can be assembled on a plate and equipped with a transportation handle. Upon request, instead of the handle an emergency stop button can be installed above a tube that allows for connection cable passage.

## Foot switches

## Foot switches with covers, IP 65

IPS foot switches


| Contact blocks (set of 1 N.O. +1 N.C.) |
| :--- |

## Color code

To select a foot switch color, substitute the appropriate color code for the $\Delta$ in the catalog number

| Yellow | Y |
| :---: | :---: |
| Grey | G |
| Red | R |

## Catalog number explanation



## Technical data

## General technical data

|  | Mini foot switch | Foot switch with cover |
| :---: | :---: | :---: |
| Standards | IEC 1058-1 | IEC 947-5-1 |
| Certifications \& Approvals | - | UL - CSA - BG |
| Air temperature near the device <br> - during operation <br> - for storage | $\begin{aligned} & -10 \ldots+70 \\ & -25 \ldots+80 \\ & \hline \end{aligned}$ | $\begin{aligned} & -10 \ldots+70 \\ & -30 \ldots+80 \\ & \hline \end{aligned}$ |
| Climatic withstand | - | according to IEC 68-2-3 <br> and salty mist according to IEC 68-2-11 |
| Shock withstand (according to IEC 68-2-27 and EN 60 068-2-27) g | - | 50 g ( $1 / 2$ sinusoidal shock for 11 ms ) no change in contact position |
| Degree of protection (according to IEC 529 and EN 60529 ) | IP 40 | IP 65 |
| Actuation torque N.m | 1.2 | 0.25 |
| Operating angle Degree | 2 to 4 | 15 |
| Cable inlet | Cable guide <br> $\varnothing$ min. $6 \mathrm{~mm} ; ~ \varnothing$ max. 8.5 mm | Pg 16 |


| 8 |  |  |
| :--- | :--- | :--- | :--- |
| Electrical data <br> Rated insulation voltage $U_{i}$ |  |  |

AC-15 - Snap action


AC-15 - Slow action


| DC-13 |  | Snap action | Slow action |
| :---: | :---: | :---: | :---: |
|  |  | Power breaking for a durability of 5 million operating cycles |  |
| Voltage | 24 V | 9.5 W | 12 W |
| Voltage | 48 V | 6.8 W | 9 W |
| Voltage | 110 V | 3.6 W | 6 W |

Technical data \& approximate dimensions
Foot switches with covers

| IPS Foot switches |  | Free movement | Locked in neutral position | Latched in low position |
| :---: | :---: | :---: | :---: | :---: |
| Snap action contacts | Catalog number | IPS1A11 | IPS2A11 | IPS3A11 |
|  | (Positive opening operation of the N.C. contact) | $\Theta$ | $\Theta$ | $\Theta$ |
| Snap action contacts | Catalog number | IPS1A22 | IPS2A22 | IPS3A22 |
|  | (Positive opening operation of the N.C. contact) | $\Theta$ | $\Theta$ | $\Theta$ |
| Non-overlapping | Catalog number | IPS1D11 | IPS2D11 | IPS3D11 |
|  | (Positive opening operation of the N.C. contact) | $\Theta$ | $\Theta$ | $\Theta$ |
| Non-overlapping | Catalog number | IPS1D22 | IPS2D22 | IPS3D22 |
| Slow action contacts | $\Theta$ (Positive opening operation of the N.C. contact) | $\Theta$ | $\Theta$ | $\Theta$ |
| Weight (packing per unit) | kg | 1.10 | 1.10 | 1.10 |

## Dimensions (mm)



