## Position switch

Type 07-291*_********


## Position switch

## Type 07-291*-********



## Position switch

When working in hazardous areas, the safety of individuals and equipment depends on observing the relevant safety regulations. Those persons responsible for assembly and maintenance bear a special responsibility.
They must have exact knowledge of the applicable regulations and provisions.
The instructions summarise the most important safety measures and must be read by all people working with the product so that they are acquainted with its correct handling.
The instructions must be kept and must be available over the entire useful life of the product.

## Description

The position switch, type 07-291*-********, serves as an auxiliary power switch for signal, control and regulation circuits or as an equipment switch in hazardous areas.

The position switch is constructed with the mounting dimensions $30 \times 60 \mathrm{~mm}(1.18 \times 2.36 \mathrm{in})$ with actuating variants and dimensions in accordance with DIN EN 50041, and is therefore compatible with position switches corresponding to the same DIN.
The position switch has snap-action contacts with several switching element variants. The limit switch with connection cable (type 07-25*1-********) is fitted into the enclosure as a switching element. Gold-plated contacts are available for switching low currents and voltages. The standard length of the connection cables is 3 m ( 9.84 ft ).

Various actuator heads are available for the variety of the actuating options, which can be rotated through $90^{\circ}$ after loosening four screws so that four actuating directions are possible.
A wide range of Exe distribution boxes made of polyester and aluminium are available for the connection of the position switch in the Ex area.

## Explosion protection

| ATEX designation | ```Ex\|2G Exdb||CT6,T5 Gb Ex|2D Extb |IIC T80}\mp@subsup{}{}{\circ}\textrm{C},\textrm{T}9\mp@subsup{5}{}{\circ}\textrm{C Db C\in0044``` |
| :---: | :---: |
| Test certificates | EPS 14 ATEX 1766 X |
| IECEx designation | Ex db IIC T6, T5 Gb Extb IIIC T $80^{\circ} \mathrm{C}, 795^{\circ} \mathrm{C} \mathrm{Db}$ |
| Test certificates | IECEx EPS 14.0092X |
| Ambient temperature | The position switches can be used depending on current load, cable cross-section as well as type of cable with different ambient temperatures in the temperature classes T6 and T5. <br> For details, see marking of the position switch. |
| Minimum ambient temperature | $\begin{array}{ll} \hline-20^{\circ} \mathrm{C}\left(-4^{\circ} \mathrm{F}\right) \text { to }+x \mathrm{xx}{ }^{\circ} \mathrm{C}^{*} \\ \text { Type } & 07-2911-* * * * / * * * * \\ 07-2913-* * * * / * * * * \end{array}$ |
| Approved for the zones | 1, 2 and 21, 22 |

*See table on page 7 for maximum ambient temperature.

## Technical data

| Protection class | IP66 (IEC 60529) |
| :---: | :---: |
| Rated voltage/ current | Electrical load of silver-plated contacts |
|  | AC $250 \mathrm{~V}, 5 \mathrm{~A}$; AC $400 \mathrm{~V}, 2 \mathrm{~A}$; |
|  | DC $250 \mathrm{~V}, 0.5 \mathrm{~A}$ |
|  | Type 07-2911-********* |
|  | 07-2917-******** |
|  | Electrical load of gold-plated contacts |
|  | Min. DC 2.4V-50mA |
|  | Max. DC 30V-4 mA |
|  | Typ 07-2913-******** |
|  | 07-2918-******** |
|  | The value of current and voltage may not exceed 0.12 VA . |
|  | For alternating current, these values are to be interpreted as peak value. |
| Tightening torque | Fastening screws: max. 0.6 Nm ( $0.04 \mathrm{lb} . \mathrm{ft}$ ) |
| Switching rate | Max. 1000/h |
| Useful life | Mechanical: <br> $10^{6}$ switching cycles, depending on approach angle and approach speed |
|  | Electrical: depending on load |
| Switching elements / contact assembly / connection | See selection table, page 6 |
| Plunger / actuator | Rust-free steel |
|  | Actuator variants, see page 5 |
|  | Travel / forces: |
|  | See selection table, page 6 |
| Enclosure | Aluminium |
| Weight | 280-315 g (excluding hose line) |
| Dimensions | See page 5 |

## Notes on safety

The position switches have been developed to assume safe-ty-related functions as part of an overall system or machine. A complete safety-related system usually contains sensors, analysis units, signalling devices and concepts for safe shutdown. It is the responsibility of the manufacturer of a plant or machine to ensure the correct overall function.

The position switch may only be used within the set temperature range. Unprotected and incorrect installation can cause malfunction or the Ex protection may be lost.

Never install or dismantle position switches when they are live.
Use in areas other than those specified or modification of the product by anyone other than the manufacturer will release BARTEC from liability for defects and from any further liability.

The generally applicable statutory rules and other binding guidelines on occupational health and safety, accident prevention and environmental protection must be observed.

The position switch may only be operated in a clean and undamaged condition. It may not be used as a mechanical stop. Conversions and modifications are not permitted.

The position switch must be replaced after any short circuit that occurs in the main circuit because with an encapsulated device, the state of the switching contacts cannot be checked.

## Marking

Particularly important points in these instructions are marked with a symbol:


DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.


WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.


CAUTION Indicates a potentially hazardous situation which, if not avoided, may reult in death or serious injury.


NOTICE Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE Important instructions and information on effective, economical and environmentally compatible handling.

## Standards complied with

See EU Declaration of Conformity 01-2511-7C0001

## Transport, storage

NOTICE
Damage to the position switch due to incorrect transport or
storage.

- Transport and storage permitted in original packaging only.


## Assembly, installation and commissioning

## WARNING

## Serious danger of injury due to incorrect approach.

- All assembly, dismantling, installation and commissioning work must be performed exclusively by skilled personnel.
- When installing or operating explosion-protected electrical systems, the pertinent installation and operating regulations must be observed


## Assembly

The following should be observed for assembly:

- Use suitable tools
- Observe the necessary type of assembly (installation in enclosure/ fitting with distribution box)
- In the case of distribution boxes outdoors, measures should be taken to ensure smooth operation (e.g. rain protection, surrounding enclosure with adequate class of protection)

NOTE Switches installed outdoors must be installed in a surrounding enclosure with adequate class of protection where required.

## Installation

The following should be observed for installation:

- Prepare the ends of multi-stranded and fine-stranded conductors.
- Crimp wire end ferrules with suitable crimping tool.
- Do not damage the individual wires during installation

NOTE See pages 5-7 for connection, marking of cables and actuator variants.

## Commissioning

Before commissioning, check that:

- The switch has been installed correctly.
- The switch is not damaged.
- There is no foreign matter obstructing the actuator travel.
- The junction box is clean.
- The connection has been established properly.
- The cables have been laid correctly
- All screws are tightened
- The switch encapsulation is not damaged.

NOTE The temperature ranges are specified for the "fixed and permanent laying of the cables",

## Operation



## DANGER <br> Death or danger of injuries due to use contrary to the intended purpose.

- The position switch may only be used within the limits / areas of use intended for it so that the temperature classes in the end application are observed (see pages 2 and 7).

NOTE It the switch is used without interruption, it is recommended that it be switched at regular intervals (at least once per month).

## Maintenance and troubleshooting

WARNING
Serious risk of injuries through incorrect approach.

- Maintenance and troubleshooting work may be conducted
by authorised skilled personnel only.
- IEC/EN 60079-17 must be observed. It is recommended
that a maintenance plan is drawn up in accordance with
this standard.


## Maintenance work

WARNING
Serious accidents through damaged components.

- Regularly check position switches and cables for cracks,
damage and tight fit.

The operator of the position switch must keep it in good condition, operate it properly, monitor and clean it regularly.

The maintenance intervals must be stipulated by the operator depending on the respective conditions of use

> NOTE Dirty enclosure/actuator can be cleaned with compressed air.

## Troubleshooting

The position switch is defective if the switching unit does not perform the switching function or the actuator no longer activates the switching unit.
Defective position switches cannot be repaired. They must be replaced in accordance with these operating instructions.

## Accessories, spare parts

BARTEC offers a wide range of terminal boxes for connection in Ex areas; see BARTEC catalogue.

## Disposal

Incorrect disposal can cause environmental damage. In cases of doubt, obtain information on environmentally compatible disposal from the local municipality or special disposal companies.
The components of the position switch contain metal and plastic parts.
For this reason, the statutory requirements for electric scrap must be observed (e.g. disposal by an approved disposal company).


## Service address

## BARTEC GmbH

Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany
Tel. :+49 7931 597-0
Fax : +49 7931 597-119

## Dimensions in mm (in)

NOTE Dimensions of the actuator are guide values

Type 07-2911-13../10 - Plunger


Type 07-2911-13../20-Roll lever


Type 07-2911-13../30-Axle lever


Selection table
Connection, type of contact, forces, travel

| 0 | 7 | -2 | 9 | 1 | $*$ | -1 | $*$ | $*$ | $*$ | $*$ | $*$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Contact type

| CC | Interrupter chamber 1 | Interrupter chamber 2 |
| :---: | :---: | :---: |
| 10 |  | - |
| 20 |  | - |
| 30 |  | - |
| 11 |  |  |
| 22 |  | 23 <br> (BU) <br> 6 -9 24 <br> (BN) |
| 21 |  | 21 <br> (BU) <br> $\$$ $\vdots$ 22 <br> (BN) |
| 33 |  | 2224 <br> (5) (6) $\begin{gathered} \text { ob } \\ \vdots \\ 21 \\ 21 \end{gathered}$ <br> (4) |

## Actuator

| DD | Max. operating force | Pretravel | Overtravel | Differential travel | Max. approach speed |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| 10 | 17 N | $\begin{aligned} & 1 \mathrm{~mm} \\ & (0.04 \mathrm{in}) \end{aligned}$ | 5 mm (0.2 in) | $\begin{aligned} & \sim 0.4 \mathrm{~mm} \\ & (\sim 0.02 \mathrm{in}) \end{aligned}$ | $\begin{aligned} & 5 \mathrm{~m} / \mathrm{s} \\ & (16.4 \mathrm{fps}) \end{aligned}$ |

Key:

| BK | Black wire |
| :--- | :--- |
| BN | Brown wire |
| BK | Blue wire |
| BN | Grey wire |

NOTE The position switches are suitable for use in the temperature classes T6 and T5 depending on the current load, cable cross-section and type of cable in different ambient temperatures.

Ta max @ load current

| Type | Marking on position switch | T classe | $\leq 1 \mathrm{~A}$ | $\leq 3 \mathrm{~A}$ | $\leq 5 \mathrm{~A}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 50^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 55^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 55^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5)$ $0.5 \mathrm{~mm}^{2}$ | T6 | $55^{\circ} \mathrm{C}\left(131{ }^{\circ} \mathrm{F}\right)$ | $55^{\circ} \mathrm{C}\left(131{ }^{\circ} \mathrm{F}\right)$ | $50^{\circ} \mathrm{C}\left(122^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $\begin{aligned} & x x^{\circ} \mathrm{C}^{\star} \leq \mathrm{Ta} \leq 50^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 55^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 55^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5) \\ & 0.75 \mathrm{~mm}^{2} \end{aligned}$ | T6 | $55^{\circ} \mathrm{C}\left(131{ }^{\circ} \mathrm{F}\right)$ | $55^{\circ} \mathrm{C}\left(131{ }^{\circ} \mathrm{F}\right)$ | $50^{\circ} \mathrm{C}\left(122^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $\begin{aligned} & x x^{\circ} \mathrm{C}^{\star} \leq \mathrm{Ta} \leq 60^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 65^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 65^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5) \\ & 0.5 \mathrm{~mm}^{2} \end{aligned}$ | T6 | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ | $60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $\begin{aligned} & x x^{\circ} \mathrm{C}^{\star} \leq \mathrm{Ta} \leq 60^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 65^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 65^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5) \\ & 0.75 \mathrm{~mm}^{2} \end{aligned}$ | T6 | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ | $60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $x x^{\circ} \mathrm{C}^{\star} \leq \mathrm{Ta} \leq 65^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A} \text { (T6) }$ <br> $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 70^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}$ (T5) $0.5 \mathrm{~mm}^{2}$ | T6 | $75^{\circ} \mathrm{C}\left(167^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ |
|  | $\begin{aligned} & x x^{\circ} \mathrm{C}^{\star} \leq \mathrm{Ta} \leq 70^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5) \\ & 0.75 \mathrm{~mm}^{2} \end{aligned}$ | T6 | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 65^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}$ (T6) $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 80^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 85^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 90^{\circ} \mathrm{C} @ 1 \mathrm{~A}$ (T5) $0.5 \mathrm{~mm}^{2}$ | T6 | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 | $90^{\circ} \mathrm{C}\left(194^{\circ} \mathrm{F}\right)$ | $85^{\circ} \mathrm{C}\left(185{ }^{\circ} \mathrm{F}\right)$ | $80^{\circ} \mathrm{C}\left(176{ }^{\circ} \mathrm{F}\right)$ |
|  | $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 70^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6)$ $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 85^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 90^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 90^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 5)$ $0.75 \mathrm{~mm}^{2}$ | T6 | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ | $75^{\circ} \mathrm{C}\left(167^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158^{\circ} \mathrm{F}\right)$ |
|  |  | T5 | $90^{\circ} \mathrm{C}\left(194^{\circ} \mathrm{F}\right)$ | $90^{\circ} \mathrm{C}\left(194{ }^{\circ} \mathrm{F}\right)$ | $85^{\circ} \mathrm{C}\left(185^{\circ} \mathrm{F}\right)$ |
|  | $\begin{aligned} & x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 45^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 50^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 55^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5) \\ & 0.5 \mathrm{~mm}^{2} \end{aligned}$ | T6 | $55^{\circ} \mathrm{C}\left(131{ }^{\circ} \mathrm{F}\right)$ | $50^{\circ} \mathrm{C}\left(122^{\circ} \mathrm{F}\right)$ | $45^{\circ} \mathrm{C}\left(113{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $\begin{aligned} & x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 50^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 50^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 55^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5) \\ & 0.75 \mathrm{~mm}^{2} \end{aligned}$ | T6 | $55^{\circ} \mathrm{C}\left(131^{\circ} \mathrm{F}\right)$ | $50^{\circ} \mathrm{C}\left(122^{\circ} \mathrm{F}\right)$ | $50^{\circ} \mathrm{C}\left(122{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $x x^{\circ} \mathrm{C}^{\star} \leq \mathrm{Ta} \leq 55^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 60^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 65^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T})$$0.5 \mathrm{~mm}^{2}$ | T6 | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ | $60^{\circ} \mathrm{C}\left(140{ }^{\circ} \mathrm{F}\right)$ | $55^{\circ} \mathrm{C}\left(131{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 60^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 60^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 65^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6, \mathrm{~T} 5)$ $0.75 \mathrm{~mm}^{2}$ | T6 | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ | $60^{\circ} \mathrm{C}\left(140{ }^{\circ} \mathrm{F}\right)$ | $60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  |  |
|  | $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 60^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6)$ $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 65^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 5)$ $0.5 \mathrm{~mm}^{2}$ | T6 | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ | $60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ |
|  | $\begin{aligned} & \mathrm{xx}{ }^{\circ} \mathrm{C} * \leq \mathrm{Ta} \leq 65^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6) \\ & x^{\circ} \mathrm{C}^{\star} \leq \mathrm{Ta} \leq 70^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T}) \\ & 0.75 \mathrm{~mm}^{2} \end{aligned}$ | T6 | $75^{\circ} \mathrm{C}\left(167^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 |  |  | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ |
|  | $0.5 \mathrm{~mm}^{2}$ | T6 | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ | $60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$ |
|  |  | T5 | $90^{\circ} \mathrm{C}\left(194{ }^{\circ} \mathrm{F}\right)$ | $85^{\circ} \mathrm{C}\left(185{ }^{\circ} \mathrm{F}\right)$ | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ |
|  | $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 65^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 70^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 75^{\circ} \mathrm{C} @ 1 \mathrm{~A}(\mathrm{~T} 6)$ $x x^{\circ} \mathrm{C}^{*} \leq \mathrm{Ta} \leq 80^{\circ} \mathrm{C} @ 5 \mathrm{~A}, 85^{\circ} \mathrm{C} @ 3 \mathrm{~A}, 90^{\circ} \mathrm{C} @ 1 \mathrm{~A}$ (T5) $0.75 \mathrm{~mm}^{2}$ | T6 | $75^{\circ} \mathrm{C}\left(167{ }^{\circ} \mathrm{F}\right)$ | $70^{\circ} \mathrm{C}\left(158{ }^{\circ} \mathrm{F}\right)$ | $65^{\circ} \mathrm{C}\left(149{ }^{\circ} \mathrm{F}\right)$ |
|  |  | T5 | $90^{\circ} \mathrm{C}\left(194{ }^{\circ} \mathrm{F}\right)$ | $85^{\circ} \mathrm{C}\left(185^{\circ} \mathrm{F}\right)$ | $80^{\circ} \mathrm{C}\left(176{ }^{\circ} \mathrm{F}\right)$ |

[^0]| Wir | We | Nous |
| :---: | :---: | :---: |
|  | BARTEC GmbH <br> Max-Eyth-Straße 16 <br> 97980 Bad Mergentheim <br> Germany |  |
|  | declare under our sole <br> erklären in alleiniger <br> Verantwortung, dass das Produkt <br> Endschalter <br> responsibility that the product | attestons sous notre seule <br> responsabilité que le produit |
| Positionsschalter | Limit Switch <br> Position switch | Fin de course |

Limit Switch Typ: 07-2511-****/****; 07-2581-****/****;
Position Switch Typ: 07-291*-****/****

## auf das sich diese Erklärung bezieht den Anforderungen der folgenden Richtlinien (RL) entspricht <br> ATEX-Richtlinie 2014/34/EU <br> RoHS-Richtlinie 2011/65/EU <br> RoHS-Richtlinie 2015/863/EU <br> und mit folgenden Normen oder normativen Dokumenten übereinstimmt

to which this declaration relates is in accordance with the provision of the following directives (D)
ATEX-Directive 2014/34/EU
RoHS-Directive 2011/65/EU
RoHS-Directive 2015/863/EU
and is in conformity with the following standards or other normative documents
se référant à cette attestation correspond aux dispositions des directives (D) suivantes
Directive ATEX 2014/34/UE
Directive RoHS 2011/65/UE Directive RoHS 2015/863/UE
et est conforme aux normes ou documents normatifs ci-dessous

EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-31:2014
EN 60529:1991

+ A1:2000 + A2:2013
EN 60947-1:2007 +
A1:2011 + A2:2014
EN 60947-5-1:2017

| Verfahren der EU-Baumuster- <br> prüfung / Benannte Stelle | Procedure of EU-Type Examination / |
| :---: | :---: | :---: |
| Notified Body |  | | Procédure d'examen UE de type / |
| :---: |
| Organisme Notifié |

EPS 14 ATEX 1766 X, Issue 1
2004, Bureau Veritas CPS Germany GmbH, Businesspark A96, 86842 Türkheim_

## ( $\epsilon_{0044}$

Bad Mergentheim, 17.02.2020

## quar Plowns

i.A. Simon Dyhrhger

Product Manager Exe



[^0]:    *Minimum ambient temperature, see page 2.

