

**DSPA-BSD**  
DSPA BULB STARTING DEVICE

DSPA-BSD-E  
DSPA-BSD-S



DSPA-BSD-B



**DESCRIPTION:**

DSPA-BSD IS A STANDALONE ACTIVATION DEVICE FOR DSPA AEROSOL GENERATORS.

**COMPATIBLE WITH:** DSPA 11-3, DSPA 11-4, DSPA 11-5, DSPA 11-6, DSPA 11-7 AND DSPA 8-1.

TESTED TO STANDARDS  
DIN EN 61373:2011  
EN 50155:2007

BULB VDS  
CERTIFIED

DURABLE BRASS HOUSING  
FOR LONG-TERM RELIABILITY  
15-YEAR SERVICE LIFE

THE DSPA-BSD IS PRIMARILY THERMALLY ACTIVATED. WHEN THE SURROUNDING TEMPERATURE REACHES THE RATED ACTIVATION TEMPERATURE OF THE THERMO BULB, THE GLASS BULB RUPTURES. THIS MECHANICAL ACTION INITIATES THE ACTIVATION OF THE CONNECTED AEROSOL GENERATOR.

**ACTIVATION VARIANTS**

**DSPA-BSD-B (BASE VERSION)**

THERMALLY TRIGGERED ONLY  
NO ELECTRICAL MONITORING  
INTENDED FOR PURELY MECHANICAL ACTIVATION

**DSPA-BSD-E (ELECTRICAL ACTIVATION VERSION)**

CAN BE ACTIVATED EXTERNALLY BY AN ELECTRICAL TRIGGERING CURRENT AND RETAINS STANDARD THERMAL ACTIVATION FUNCTIONALITY.

IN THIS CONFIGURATION, THE DSPA-BSD-E CAN BE CONNECTED TO ANY SUITABLE EXTERNAL DEVICE CAPABLE OF SUPPLYING THE REQUIRED TRIGGERING CURRENT. THIS ENABLES ACTIVATION VIA FIRE ALARM PANELS, CONTROL SYSTEMS, OR OTHER EXTERNAL DETECTION METHODS.

**DSPA-BSD-S (SUPERVISED VERSION)**

THERMALLY TRIGGERED  
PROVIDES ELECTRICAL MONITORING CAPABILITY  
INCORPORATES TWO ELECTRICAL CONTACTS FOR SIGNAL PASS-THROUGH  
THE BUILT-IN THERMALLY TRIGGERED GLASS AMPOULE IS COATED WITH AN ELECTRICALLY CONDUCTIVE LAYER  
ALLOWS A LOW-VOLTAGE MONITORING SIGNAL TO PASS THROUGH THE GLASS BULB

WHEN THE GLASS BULB REACHES ITS ACTIVATION TEMPERATURE AND RUPTURES, THE ELECTRICAL CIRCUIT IS INTERRUPTED. THE DSPA-BSD-S THEREFORE FUNCTIONS AS A NORMALLY-CLOSED (NC) ELECTRICAL CONTACT, ENABLING STATUS MONITORING BY AN EXTERNAL CONTROL OR FIRE DETECTION SYSTEM.



# THERMO BULB TEMPERATURE RATINGS

THE THERMO BULBS ARE AVAILABLE IN MULTIPLE NOMINAL ACTIVATION TEMPERATURES AS SHOWN BELOW:

## SPECIFICATIONS:

| NOMINAL TEMPERATURE FOR ACTIVATING<br>THE HEAT LOCK OF THE SPRINKLER IN °C |          |                        | DSPA-BSD-B | DSPA-BSD-S | DSPA-BSD-E |
|----------------------------------------------------------------------------|----------|------------------------|------------|------------|------------|
| NOMINAL                                                                    | VARIANCE | COLOR OF<br>GLASS BULB | PART NO.   | PART NO.   | PART NO.   |
| 57                                                                         | +3       | Orange                 | 100820_57  | 100821_57  | 100822_57  |
| 68                                                                         | +3       | Red                    | 100820_68  | 100821_68  | 100822_68  |
| 79                                                                         | +3       | Yellow                 | 100820_79  | 100821_79  | 100822_79  |
| 93                                                                         | +3       | Green                  | 100820_93  | 100821_93  | 100822_93  |
| 141                                                                        | +3       | Blue                   | 100820_141 | 100821_141 | 100822_141 |

## DSPA-BSD-S (SUPERVISED VERSION) ELECTRICAL DATA:

TYPE: NORMALLY CLOSED (NC) CONTACT  
SIGNAL CURRENT: MAX. 50 mA  
VOLTAGE: 9-24 V DC

TRANSITION RESISTANCE: < 1,000 MΩ  
CONNECTION: 6.8 mm INDUSTRY-STANDARD  
FLAT CONNECTORS (BLADE TERMINALS)

**NOTE:** THE SIGNAL CURRENT MUST NOT EXCEED 50 mA TO PREVENT UNINTENTIONAL OVERHEATING OF THE GLASS BULB (UNINTENDED ACTIVATION).

## DSPA-BSD-E (ELECTRICAL ACTIVATION VERSION) ELECTRICAL DATA:

TYPE: NORMALLY CLOSED (NC) CONTACT  
MAXIMUM SIGNAL CURRENT: 10 mA  
SIGNAL VOLTAGE: 9-24 V DC  
ACTIVATION CURRENT: 1 mA

ACTIVATION TIME: < 5 S @ 1 mA  
ACTIVATION VOLTAGE: 9-24 V DC  
TOTAL RESISTANCE: 10 Ω

**NOTE:** THE MONITORING SIGNAL CURRENT MUST NOT EXCEED 10 mA TO AVOID UNINTENTIONAL ACTIVATION.



THE DSPA-BSD-S AND BSD-E SHALL ONLY BE USED WITH VOLTAGES LOWER THAN 60 V DC (USIGNAL\_MAX = 24 V DC). IN ACCORDANCE WITH PRODUCT SAFETY GUIDELINE 2001/95/EG, PROTECTION AGAINST HUMAN CONTACT IS NOT MANDATORY. IF THE SIGNALING VOLTAGE CONNECTED TO THE DSPA-BSD-S AND BSD-E IS GENERATED BY A POWER TRANSFORMER, THE TRANSFORMER MUST BE DESIGNED BASED ON EN 61558-2-6 (E.G. POWER TRANSFORMER SAFETY CLASS III).

