

# ADDRESSABLE REFLECTIVE BEAM SMOKE DETECTOR S2000-IPDL

**ICO 9001**



## DATA SHEET

- Rev.60 (5 to 60 m)
- Rev.80 (20 to 80 m)
- Rev.100 (25 to 100 m)
- Rev.120 (30 to 120 m)

### 1 GENERAL

1.1 S2000-IPDL Addressable Reflective Beam Smoke Detector (hereinafter referred to as the detector) is meant to be used in fire alarm systems in order to detect fires accompanied with smoke in enclosed premises of various buildings and constructions and to respond with such messages as *Fire Alarm*, *Trouble*, *Test*.

1.2 The detector operates under a Polling Loop (PL) controller S2000-KDL or S2000-KDL-2I in an Orion integrated security system.

1.3 The detector is intended for round-the-clock operation.

1.4 The detector is a maintainable repairable product.

1.5 The version of the detector firmware is v.1.02.

### 2 SPECIFICATIONS

No.	Feature	Value
2.1	Detection range, meters: - S2000-IPDL Rev.60 - S2000-IPDL Rev.80 - S2000-IPDL Rev.100 - S2000-IPDL Rev.120	- 5.. 60 - 20.. 80 - 25.. 100 - 30.. 120
2.2	Alarm threshold of the detector can be adaptive (dependent on the spacing) or one of eight specified values, dB	- 0,5; 0,7; 1,0; 1,3; 1,6; 1,9; 2,2; 3,0
2.3	Maximum width of the area covered by a single detector (as per the SP5.13130 rules), meters	- 9
2.4	Power Supply Voltage, V	- от 7 до 11
2.5	Consumed Current, mA	- не более 1,7
2.6	Alarm Response Time, s: - Normal - Maximum	- 6 - 8
2.7	Trouble Response Time, s: - Trouble – Memory - Trouble – Out-of-Range - Trouble – Beam - Trouble – High - Trouble – Low	- 5 max - 5 ma - 10 max - 60 max - 60 max

No.	Feature	Value
2.8	Optical Beam Power Reduction Threshold for sensitivity compensation (50%), dB	- 3
2.9	Transceiver Unit Overall Dimensions, mm	- 100×160×127 max
2.10	Transceiver Unit Weight, kg	- 0.41 max
2.11	Reflector Overall Dimensions, mm	- 115×65×8 max
	- Type XS (Extra Small)	- 100×100×9 max
	- Type S (Small)	- 245×210×16 max
2.12	Reflector Weight, kg:	- 0.046 max
	- Type XS (Extra Small)	- 0.06 max
	- Type S (Small)	- 0.41 max
2.13	Operating Temperature, °C	- Minus 30 to +55
2.14	Relative Humidity, %	- Up to 98 at +40 °C
2.15	Resistive to sinusoidal vibration with acceleration of 0.5 g, Hz	- 10 to 155
2.16	Maximum permissible illuminance at the mounting location, lux	- 12000
2.17	Ingress Protection Rating as per GOST 14254-96	- IP40
2.18	Immune to EMI of severity levels as per: GOST 30804.4.2 and GOST 30804.4.4	- Fourth
	GOST 30804.4.3	- Third
2.19	Category relative to industrial radio interference (radio disturbance) as per GOST 30805.22	- Class B
2.20	Non-stop Operation	- Round-the-clock
2.21	MTBF in quiescent mode, hours	- At least 60000
2.22	Non-failure Operation Probability	- 0.98758
2.23	Average Lifetime, years	- 10

### 3 STANDARD DELIVERY

Product	Quantity, pcs.			
	S2000-IPDL Rev.60	S2000-IPDL Rev.80	S2000-IPDL Rev.100	S2000-IPDL Rev.120
S2000-IPDL Transceiver Unit	1	1	1	1
Type XS Reflector	1	-	-	-
Type S Reflector	1	-	-	-
Type L Reflector	-	1	2	4
Remote Indicator and Control Unit	1	1	1	1
Mounting Kit No.1:	1	1	1	1
Wood Screw 4×50 DIN 7996	4	4	4	4
Wall Plug 6×30	4	4	4	4
Tapping Screw 2.2×6.5 DIN 7981	2	2	2	2
Mounting Kit No.2:	2	1	1	1
Wood Screw 3×20 DIN 7996	4	4	4	4
Wall Plug 5×25	4	4	4	4

Product	Quantity, pcs.				
	S2000-IPDL Rev.60	S2000-IPDL Rev.80	S2000-IPDL Rev.100	S2000-IPDL Rev.120	
Mounting Kit No.3: Wood Screw 4×30 DIN 7996 Wall Plug 6×30	1 2 2	- - -	- - -	- - -	
Mounting Kit No.4: Wood Screw 4×30 DIN 7996 Wall Plug 6×30	- - -	1 4 4	2 4 4	4 4 4	
Data Sheet	1	1	1	1	
Type 2 Packing Type 3 Packing	1 -	- 1	- 1	- 1	

#### 4 DESIGN, MOUNTING, AND CONNECTING

The design of the detector and the order of installation and connection are described in S2000-IPDL User's Manual which can be found online at the site [bolid.ru](http://bolid.ru) in Section PRODUCTS at the page of S2000-IPDL.

#### 5 DESCRIPTION AND OPERATION

Features and operating of the detector are described in S2000-IPDL User's Manual which can be found online at the site [bolid.ru](http://bolid.ru) in Section PRODUCTS at the page of S2000-IPDL.

#### 6 TESTING

The procedures of testing operability and alignment for the detector are described in S2000-IPDL User's Manual which can be found online at the site [bolid.ru](http://bolid.ru) in Section PRODUCTS at the page of S2000-IPDL.

#### 7 MAINTENANCE AND REPAIR

7.1 Annual maintenance works include:

a) Checking whether the detector is mounted securely, the housing of the detector is undamaged, and wire terminals are fastened properly;

b) Eliminating dust, debris, and traces of corrosion from the contact joints and the housing of the detector;

б) Standard checking of functionality of the detector by simulating Test / Fire (depending on the given settings) conditions and Fault conditions using the relevant buttons of the remote indicator and control unit duplicated in the detector.

7.2 A faulty detector is subject to repair by manufacturer or in certified repair centers. When submitting the product for repair, it shall be accompanied with descriptions of a possible fault.

#### WARNING!

#### The manufacturer does not accept any claims without an incident report

7.3 A detector's failure which resulted from consumer's not observing mounting or operation rules is not a reason for claims and warranty repair.

7.4 Claims shall be submitted to the following address:

NVP BOLID CJSC, 4 Pionerskaya Str., Korolyov city, Moscow region, 141070, Russia  
Tel./Fax: +7 (495) 775-71-55 (multiline). E-mail: [info@bolid.ru](mailto:info@bolid.ru)

7.5 In case of any issue related to operating the detector, please contact with the technical support: +7 (495) 775-71-55 or e-mail: [support@bolid.ru](mailto:support@bolid.ru).

## 8 TRANSPORTATION, STORAGE, DISPOSAL

8.1 The detectors in transportation packing can be stored in unheated storage buildings/rooms at ambient temperatures minus 50 to +50 °C and relative humidity up to 95% at +35 °C.

8.2 The detectors in consumer packing shall be stored in heated warehouses at temperatures +5 to +40 °C and relative humidity up to 80% at +20 °C.

8.3 While disposing the detector please take into account that there are no toxic components within the detector.

8.4 Precious material content: not subject to inventory accounting in case of storage, disposal and recycling (Article 1.2 of GOST 2.608-78).

## 9 MANUFACTURER WARRANTY

Warranty period is 18 months since putting the detector into operation but no more than 24 months from the manufacturer's date of issue.

## 10 CERTIFICATES

10.1 S2000-IPDL Addressable Reflective Beam Smoke Detector is approved by Conformity Certificate No. C-RU.AЖ45.B.00035.

10.2 The production of S2000-IPDL Addressable Reflective Beam Smoke Detector is certified according to GOST ISO 9001-2011 No. ROSS RU.ИК32.K00153.

## 11 INFORMATION ABOUT ACCEPTANCE, PACKAGING, AND MARKING

11.1 The S2000-IPDL beam smoke detector with Serial No. \_\_\_\_\_ is manufactured and accepted in accordance with mandatory requirements of state standards and actual engineering documentation, approved as ready for operation and packaged by the DIP-Intellect Company.

11.2 The marking on the detector is performed as required by actual design documentation and GOST 26828-86.

11.3 The following data are specified on the label stuck to the detector:

- 1) The name of the product;
- 2) The manufacturer logo;
- 3) The factory number;
- 4) The quarter and year of manufacturing;
- 5) The mark of conformity.

Responsible for acceptance and packaging

QCD \_\_\_\_\_

Full Name

\_\_\_\_\_

Date, Month, Year

