SCH60X USER GUIDE

ATEX / UKEX / IECEx APPROVED CONNECTION HEAD

Important - Please read this document before installing, in particular the ATEX / UKEX / IECEx information when applicable to the application.

Every effort has been taken to ensure the accuracy of this document; however, we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.

Applies to Exd and Exia - Safety Conditions

The apparatus must be installed and maintained by competent technicians familiar with the relevant requirements for installation of equipment in potentially explosive atmospheres e.g. EN60079-14, plus any local codes of practice.

Important – Read this document before installing.

xxxx xxxx

Description

The SCH60X connection head is a Exd and Exia approved enclosure. The enclosure and cover are made of aluminium pressure die-casting (Mg<6%).

An earth terminal is placed on the body of enclosure.

The cover is fixed to the body by thread 100 x 2. The cover is sealed by "O" ring. The cover is alternatively designed with inspection window made of floated glass.
The threaded holes for flameproof cable gland are M20 x 1.5
The base threaded hole is M20 x 1.5 for sensor connection.
The enclosure is coated by chemically resistant paint.

The following options are available from which the product part number will be generated

Enclosure Type	Material	Protection Concept	Window Fitted	Instrument Type
SCH60X	A= Aluminum S= Stainless steel	I = Intrinsically Safe D = Flameproof	Y = Yes N = No	0 = Connection block A = SEM320X (1) B = TTR200X C = TTC200X D = SEM210X E = SEM310X X = Any electronic device (2)

Notes:

1. Only available on Ex ia and Ex d window version.
2. Not available for Ex ia version: see Specific Conditions of Use for compliance.
3. When operating, instruments type A,B,C,D,E must be powered by an intrinsically safe supply.
   Their parameters are as follows
   Ui = 30 V
   Li = 100 mA Ci = 0 F
   Pi = 750 mW Li = 0 F

Materials

Main Body: Cast aluminium alloy (Mg<6%).
O ring seal: Tserv = -40 to 100°C (85°C with window) – oil proof VMQ rubber
Window: Soda line float glass
Window Cement: SYLGARD

Special Conditions of safe use Ex d version	
1	Appropriately certified cable glands, blanking elements or sensors/probes for direct entry shall be used.
2	The enclosure must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
3	It is not allowed to install circuit breakers or contactors with oil filling and rotating apparatus producing turbulence inside the enclosure.
4	For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
5	For the end user to fit any electronic device the following shall be adhered to: • The maximum wattage of 3W shall not be exceeded. • Ensure that the free cross-sectional area in any direction will be at least 40% (group IIC) of the internal free volume. • Suitable for ambient not exceeding -40°C to +85°C.

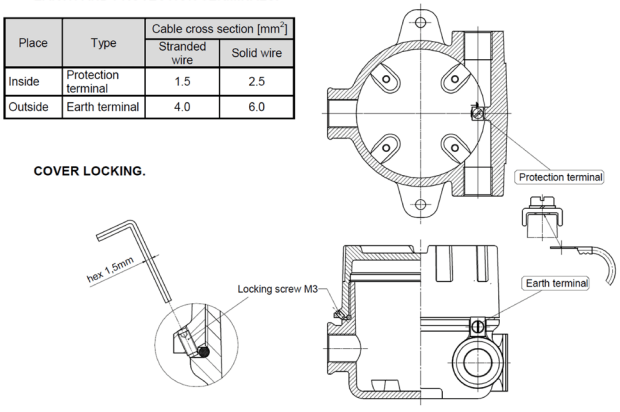
Special Conditions of safe use Ex i version	
1	The Temperature Transmitters shall only be configured by means of the USBX or USBTTX configurators, covered under EMT16ATEX0024X, IECEx EMT 16.0013X, CML 21UKEX2526X, IECEx EMT 16.0030X, EMT 16ATEX0050X & CML 21UKEX2527X. Connection shall be in the safe area only. Additionally, Transmitters may be configured in hazardous area via HART communication.
2	For gas applications, the equipment must be located in an area where the enclosure will not be subject to impact or friction.
3	Only suitable for connection to thermocouples, RTD temperature sensors or slide wire resistance devices. They shall meet the requirements for simple apparatus as per IEC 60079-11 clause 5.7 and shall meet the dielectric withstanding requirements of IEC 60079-11 clause 6.3.13.
4	When the SEM320X transmitter is fitted, the installation shall protect the enclosure from impacts and friction.

Maintenance

It is recommended to change the O-ring if the cover has been opened during service work of the unit. O-ring, if changed, must be lubricated evenly on the whole circumference by a grease or oil for O-rings, or by technical Vaseline directly before reassembling the cover

EARTH AND PROTECTION TERMINALS.

Place	Type	Cable cross section [mm²]	
		Stranded wire	Solid wire
Inside	Protection terminal	1.5	2.5
Outside	Earth terminal	4.0	6.0



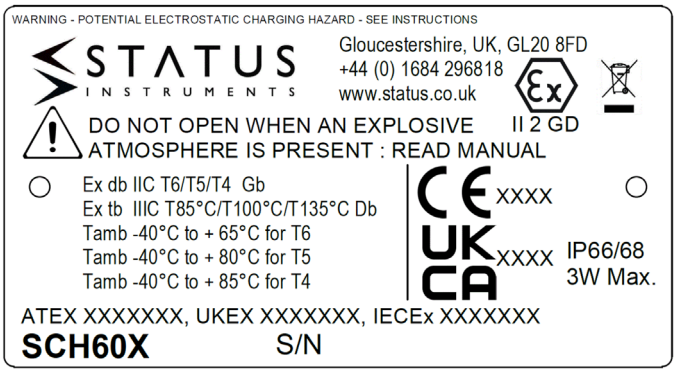
COVER LOCKING.

Lock the cover by screw with hex socked using hex spanner with across flat 1,5mm.

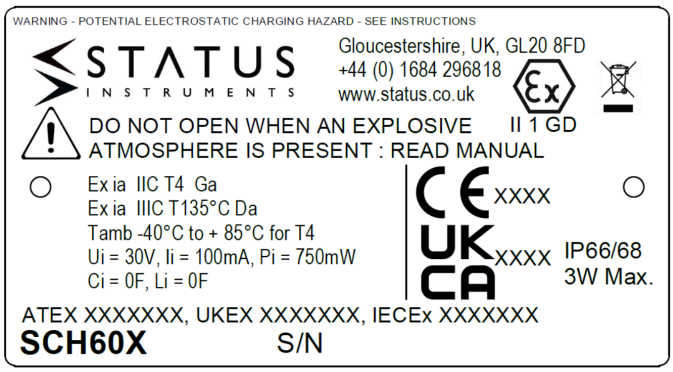
Product and Certification Labels

XXXX To be replaced with appropriate certificate numbers.
SCH60X to be replaced with specific part number
Serial number to change for each product

Ex d Certification label



Ex ia Certification label



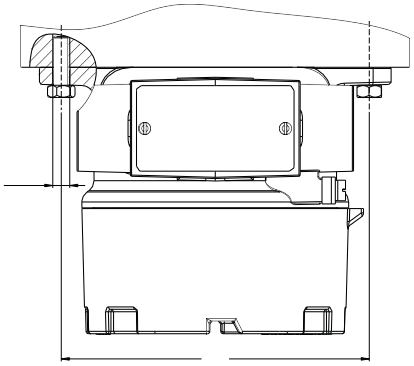
Installation

Exd Refer to EN60079-14 and EN60079-1 for installation details
Exia Refer to EN60079-0 and EN60079-11 for installation details

Ex db, tb installation: No modification to the enclosure is allowed by the customer except as mentioned in the manual or installation drawing.
Flame proof joints are not intended to be repaired.

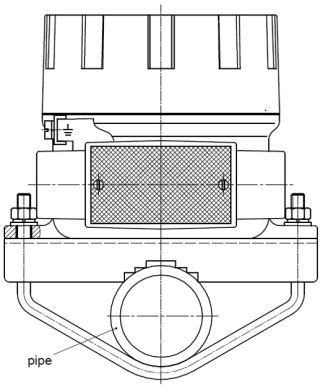
Wall mount – top view

2 x 7.0 mm Dia. 127 mm Pitch.

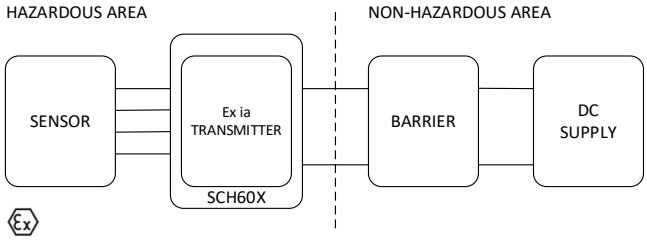


Pipe mount

2 x 7.0 mm Dia. 127 mm Pitch.



Connection Schematic



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