ATEX / IECEx / UKEX Switches – Type LS-EX

Datasheet

Ex db IIC T6 (-20℃ ≤ Ta ≤ +60℃) Gb
Ex tb IIIC T85℃ (-20℃ ≤ Ta ≤ +60℃) Db IP65

Type: LS-EX
Part No. 920_ _ _

Operation:
All LS-EX Hazardous Area Limit Switches are designed to conform to EN60079-0, IEC60079-1 and EN60079-31. They have a mechanical operating rod, which provides a switching action when depressed. They can be used for position monitoring and provide a positive switching action.

SPECIFIC CONDITIONS OF USE:

1. **THE INTEGRAL CABLE AND OPERATING ROD SHALL BOTH BE SUITABLY PROTECTED FROM PHYSICAL DAMAGE AND ABRASION. THE INTEGRAL CABLE IS TO BE TERMINATED IN A SUITABLE TERMINAL FACILITY.**
2. **THE SWITCHES ARE INTENDED FOR USE ON FIXED INSTALLATIONS AND IF NOT MOUNTED DIRECT TO EARTHED METALWORK ARE TO BE PROTECTED FROM ELECTROSTATIC RISKS (RUBBING AND CHARGED AIR FLOWS ETC).**
3. **THESE SWITCHES ARE SEALED UNITS AND NOT USER SERVICEABLE.**

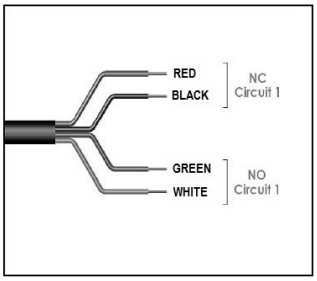
THE MAXIMUM SWITCHING CURRENT SHOULD BE OBSERVED FOR 4 WIRE AND 8 WIRE VERSIONS.
THE MOUNTING HOLES ARE NOT TO BE ENLARGED.

Switching frequency	1.0 Hz maximum
Body Material	Nylon PA66
Enclosure Protection	IP65
Dielectric Withstand	1500V.

Certification Standards	IEC 60079-0	(EN60079-0)
	IEC 60079-1	(EN60079-1)
	IEC 60079-31	(EN60079-31)
Certificate No's:	EC Type Certificate Number:	Baseefa11ATEX0267X
	IEC Certificate Number:	IECEx BAS11.0133X
	UK Type Certificate Number:	BAS22UKEX0013X
Classification	ATEX Zones 1,21,2,22	
	II GD	Ex db IIC T6 (-20°C ≤ Ta ≤ +60°C) Gb, Ex tb IIIC T85°C (-20°C ≤ Ta ≤ +60°C) Db IP65

4 wire versions: 250V.ac/dc 4.0A.
8 wire versions: 250V.ac/dc 2.5A.

1 NC 1 NO



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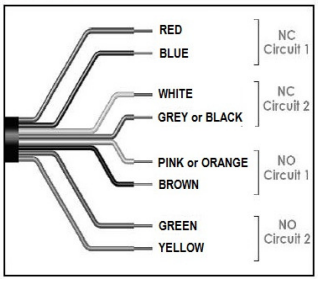

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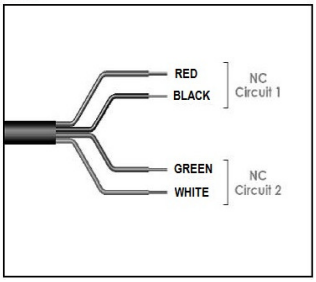

EU Declaration of Conformity

Manufacturer: IDEM SAFETY SWITCHES Ltd., 2 Ormside Close, Hindley Industrial Estate, Hindley Green, Wigan, UK.

The following products have been found to comply with the Essential Health and Safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the following Directive:

Directive for Equipment intended for use in potentially explosive atmospheres: 2014/34/EU

Device: Limit Switch Type LS-Ex.

Ex db IIC T6 Gb (-20°C ≤ Ta ≤ +60°C)
Ex tb IIIC T85°C Db (-20°C ≤ Ta ≤ +60°C)
IP65

Harmonised Standards:
EN IEC 60079-0:2018
EN 60079-1:2014
IEC 60079-31:2022

EU Type Certificate Number: Baseefa11ATEX0267X Date: 10/01/2025

Certified Body: SGS Fimko Oy, FI-00380 Helsinki, Finland (Notified Body Number 0598).

M.Mohtasham Managing Director 3rd April 2025

UK Declaration of Conformity

Manufacturer: IDEM SAFETY SWITCHES Ltd., 2 Ormside Close, Hindley Industrial Estate, Hindley Green, Wigan, UK.

The following products have been found to comply with the Essential Health and Safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the following regulations:

Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended).

Device: Limit Switch Type LS-Ex.

Ex db IIC T6 Gb (-20°C ≤ Ta ≤ +60°C)
Ex tb IIIC T85°C Db (-20°C ≤ Ta ≤ +60°C)
IP65

Harmonised Standards:
BS EN IEC 60079-0:2018
BS EN 60079-1:2014
IEC 60079-31:2022

UK Type Certificate Number: BAS22UKEX0013X Date: 10/01/2025

Certified Body: SGS United Kingdom Ltd.,Rockhead Business Park, Staden Lane, Buxton, Derbyshire SK17 9RZ (Notified Body Number 1180)

M.Mohtasham Managing Director 3rd April 2025