



Honeywell GXA Explosion Proof Limit Switch Instruction Manual

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Honeywell

INSTALLATION INSTRUCTIONS FOR THE
EXPLOSION-PROOF LIMIT SWITCH
GXA/GXE SERIES
XP-4051/Issue 16



WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where the failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.



WARNING

OPENING PRODUCTS HAZARD

DO NOT OPEN these products when energized or in a flammable gas atmosphere.

Failure to comply with these instructions could result in death or serious injury.



WARNING

SPECIAL CONDITIONS

- The connection cable on the switch must be fixed and mechanically protected when installed.
- If the switch is mounted outdoors, cover the switch's cable with the conduit of a suitable protection class.
- If the cable fitted to this product is terminated within the potentially explosive atmosphere, the terminations must be made within an enclosure certified as flameproof (protection type 'd') or increased safety (protection type 'e').

Failure to comply with these instructions could result in death or serious injury.

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Routine Maintenance

It is important to appreciate that the safe operation of your machine will depend upon the safe efficient working of all components and devices, which would include these switches. It is essential that a regular maintenance routine for the machine is established and that the routine should specifically cover all components that interface with these switches. It is imperative that any wear on the actuator mechanism operating the switch, or on the switch itself, and also any drift in the operating characteristics are identified at an early stage and the necessary corrective actions implemented by the end user, thus ensuring operator safety. The switch actuator must not be traveled to the point where it reaches its physical end stop, or beyond, as damage could occur. It is good design practice not to hold the switch actuator in the overtravel position for extended periods, that the actuator moves freely without jamming during operation and that the alignment of the machine actuator to the switch prevents damage or excessive wear. The cable gland is not designed to be removed from the enclosure. Tampering with this connection will result in damage to the switch. No spare parts are available.

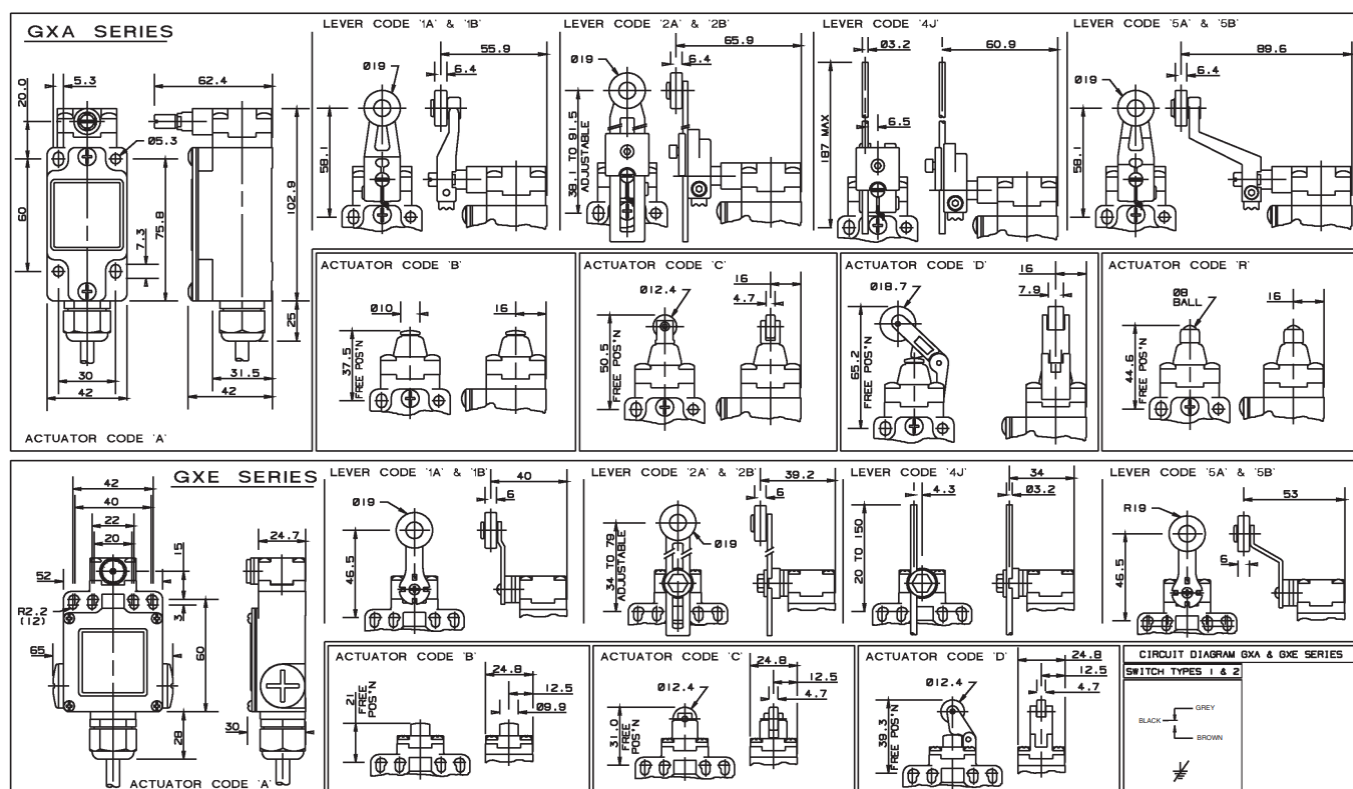
NOTICE

Refer to product nameplate for date code. THE DATE CODE is YYXX. YY is the last two digits of the year of manufacture, and XX is the week of manufacture of the product.

MICRO SWITCH EXPLOSION-PROOF LIMIT SWITCH

GXA/GXE SERIES

Dimensions in mm



Technical Specifications

1 Mechanical life	Up to 2 million operations
2 Degree of protection	IP66, EN 60529
3 Operating temperature	-20 °C to 75 °C @ 3 A (-4 °F to 167 °F) -20 °C to 60 °C @ 4 A (-4 °F to 140 °F)
4 Standards:	EN IEC 60079-0, EN 60079-1, EN60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31 EN 60947-1, EN 60947-5-1
5 Classification:	ATEX (CE) / IEC Ex II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T85C Db IP66
6 EC Type Examination Certificate:	KEMA 00ATEX 2103 X; IEC Ex KEM10.0039X
7 Utilization category ac(Use) dc(UK)	AC15 DC13 250 V 4 A 250 V 0.15 A
8 Shock	50 g – IEC 60068-2-27
9 Vibration	10 g – IEC 60068-2-6

NOTE: This unit must be replaced after any short circuit that occurs in the main circuit.

NOTE: Before use, external housing shall be suitably bonded. An external ground screw can be assembled to any unused mounting screw hole.

1. Mechanical life
2. Degree of protection

3. Operating temperature
4. Standards
5. Classification
6. EC Type Examination Certificate
7. Utilization category
8. Shock
9. Vibration

Specific conditions of use

1. Ambient temperature range:
 - 20 °C to 75 °C @ 3 A (-4 °F to 167 °F)
 - 20 °C to 60 °C @ 4 A (-4 °F to 140 °F)
2. Switch components may not be replaced or modified. Any issues regarding replacement and/or abnormal operation should be brought to Honeywell's attention in order to maintain the explosion-proof performance and avoid product damage.
3. In a dusty environment, do not open the switch during operation or to perform maintenance.
4. For installation, use, and product maintenance follow the directions and warnings outlined in the Installation Instructions.
5. The free end of the permanently connected cable shall be connected either by using a suitable certified junction box when the connection is made inside the hazardous area or by using any suitable junction box when the box is placed outside the hazardous area.
6. The equipment has a non-conducting coating and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done with a damp cloth.

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HONEYWELL CONTROL SYSTEMS LIMITED

GXA and GXE Series

Catalogue Listing Characters

1 2 3 4 5 6 7

1 = GXA or GXE

2 = Any number 1 through 10

3 = 1

4 = A, B, C, D, R

5 = (Optional) 1A, 1B, 1C, 1Y, 2A, 2B, 2D, 2E, 2W, 2Y, 3A, 3B, 4J, 4K, 4N, 5A, 5B, 9A

6 = (Optional) 3, 4, 5, 6

7 = (Optional) may be followed by letters and/or numbers to indicate customer specific listings.

EU Declaration of Conformity

Honeywell Control Systems Ltd. hereby declare that the products identified below conform to the essential requirements of the EU Directive(s) listed below and that the products supplied are in conformity with the type described in any EU Type Examination Certificate (EU TEC) identified below.

Manufacturer:

Product: Limit Switch - GXA, GXE Series
See page 2 for listing chart

Directive (Amendments)

Conformity Details

LVD 2014/35/EU Standards applied: EN 60947-1:2007 + A1:2011 + A2:2014
EN 60947-5-1:2017

ATEX 2014/34/EU Standards applied: EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-31:2014
EU TEC No: KEMA 00ATEX2103 X
Notified Body: Notified Body ID 0344
Dekra Certification BV, Utrechtseweg 310
6812 AR Arnhem, The Netherlands
ATEX Markings: II 2 GD Ex db IIC T6 Gb, Ex tb IIIC T85C Db

Signed on behalf of Honeywell Control Systems Ltd. :

Gene Ottes, Quality Manager

DoC No: A301

DoC Issue: 12

DoC Date: 02/11/2021

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DOC No: A301
Original Issue Date: 2000

DOC Issue #: 12
Issue #12 Date: November-2-2021

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell website, it is up to the customer to determine the suitability of the product in the application.

FOR MORE INFORMATION

Honeywell Sensing and Internet of Things services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing, or the nearest Authorized Distributor, visit: sps.honeywell.com/ast or call:

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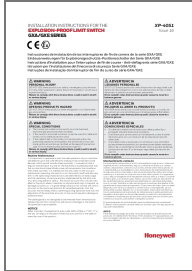
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Documents / Resources



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GXA, GXE, Explosion Proof Limit Switch, Proof Limit Switch, Limit Switch, GXA, Switch

References

- [H Products - Advanced Sensing Technologies | Honeywell](#)

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