



Representative photograph, actual product appearance may vary.

Due to regional agency approval requirements, some products may not be available in your area. Pleas e contact your regional Honeywell office regarding your product of choice.

### ZM90G20F01

ZM Series, Subminiature Basic Switch, SPDT, 125/250 Vac, 10.1 A, Roller Lever Actuator, PCB Straight Termination

### **Features**

- Subminiature: 10,6 mm H x 6,4 mm W x 19,8 mm L [0.42 in  $H \times 0.25 \text{ in } W \times 0.78 \text{ in } L$
- Choice of low energy or power duty electrical ratings (goldplated or silver contacts)
- Single pole double throw (SPDT) circuitry or single pole
- single throw (SPST) circuitry available
- Choice of 0.1 A, 5 A or 10.1 A ratings
- Choice of actuation, termination and operating
- characteristics
- Polyamide (nylon) housing material

## **Typical Applications**

- Appliances
- · Vending machines
- · Timing devices
- Office equipment
- Computer/business equipment
- Test instruments
- Medical/dental equipment
- Communications equipment
- HVAC equipment
- · Manually operated devices
- Valves

# **Description**

ZM Series Subminiature Basic Switches are used for simple or precision ON/OFF application needs. These switches combine small size and light weight with ample electrical capacity, low cost and long life.

# Honeywell

## ZM90G20F01

ZM Series, Subminiature Basic Switch, SPDT, 125/250 Vac, 10.1 A, Roller Lever **Actuator, PCB Straight Termination** 

Sealed   No		Product Specifications
Ampere Rating 10.1 A  Circuitry Single Pole Double Throw (SPDT)  Actuator Roller Lever  Termination PCB Straight  Operating Temperature lange 125/250 Vac  Approvals CE, CSA, UL  Actuator Length 16,5 mm [0.65 in]  Contact Type Silver  Operating Force (O.F.) 0,59 N [2.12 oz] max.  Release Force (R.F.) 0,15 N [0.53 oz] min.  Pretravel (P.T.) 3,8 mm [0.150 in] max.  Overtravel (O.T.) 0,8 mm [0.032 in] mix.  Operating Position (O.P.) 17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]  Free Position (F.P.) 22,1 mm [0.870 in] max.  Humidity Max. 85% RH at 40 °C [104 ° F]  High Temperature 85 °C [185 °F]  Mechanical Service Life Min. 5,000,000 operations  Dielectric Strength 1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Operating requency Max. 400 operations per minute  Electrical Operating Frequency M	Switch Type	Subminiature 10,6 mm H x 6,4 mm W x 19,8 mm L [0.42 in H x 0.25 in W x 0.78 in L]
Circuitry         Single Pole Double Throw (SPDT)           Actuator         Roller Lever           Termination         PCB Straight           Operating Temperature large         2.5 °C to 85 °C [-13 °C to 185 °C]           Large         125/250 Vac           Approvals         CE, CSA, UL           Actuator Length         16,5 mm [0.65 in]           Contact Type         Silver           Operating Force (O.F.)         0,59 N [2.12 oz] max.           Release Force (R.F.)         0,15 N [0.53 oz] min.           Pretravel (P.T.)         3,8 mm [0.150 in] max.           Overtravel (O.T.)         0,8 mm [0.032 in] max.           Operating Position (O.P.)         17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]           Free Position (F.P.)         22,1 mm [0.870 in] max.           Housing Material         Polyamide (Nylon)           Humidity         Max. 85% RH at 40 °C [104 ° F]           High Temperature         85 °C [185 °F]           Mechanical Service Life         Min. 5,000,000 operations           Dielectric Strength         1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute           Electrical Operating requency         Max. 400 operations on resistive load current 5 A at 125/25/25/25/25/25/25/25/25/25/25/25/25/2	Sealed	No
Actuator Termination PCB Straight Operating Temperature large 125° °C to 85° °C [-13° °C to 185° °C] Voltage 125/250 Vac Approvals CE, CSA, UL Actuator Length 16,5 mm [0.65 in] Contact Type Operating Force (O.F.) O,59 N [2.12 oz] max. Release Force (R.F.) Pretravel (P.T.) 3,8 mm [0.150 in] max. Overtravel (O.T.) O,8 mm 0.032 in] min. Differential Travel (D.T.) Operating Position (O.P.) 17,5 mm ± 0,8 mm [0.689 in ± 0.032 in] Free Position (F.P.) Polyamide (Nylon) Humidity Max. 85% RH at 40° °C [104° F] High Temperature Mechanical Service Life Min. 5,000,000 operations Dielectric Strength Electrical Operating Frequency Max. 400 operations on resistive load current 5 A at 125/25 Vac Electrical Operating Frequency CE mark G1058-1 UL File # E12252 CSA File # Agency Approvals and standards Mounting Screw Size Mounting Centers Mountin	Ampere Rating	10.1 A
PCB Straight   PCB Straight	Circuitry	Single Pole Double Throw (SPDT)
Operating Temperature lange         -25 °C to 85 °C [-13 °C to 185 °C]           Voltage         125/250 Vac           Approvals         CE, CSA, UL           Actuator Length         16,5 mm [0.65 in]           Contact Type         Silver           Operating Force (O.F.)         0,59 N [2.12 oz] max.           Release Force (R.F.)         0,15 N [0.53 oz] min.           Pretravel (P.T.)         3,8 mm [0.150 in] max.           Overtravel (O.T.)         0,8 mm 0.032 in] min.           Differential Travel (D.T.)         0,8 mm [0.689 in ± 0.032 in]           Operating Position (O.P.)         17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]           Free Position (F.P.)         22,1 mm [0.870 in] max.           Housing Material         Polyamide (Nylon)           Humidity         Max. 85% RH at 40 °C [104 ° F]           High Temperature         85 °C [185 °F]           Mechanical Service Life         Min. 5,000,000 operations           Dielectric Strength         1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute           Electrical Operating requency         Max. 400 operations per minute           CE mark         61058-1           UL File #         212438           Agency Approvals and standards         1054           Mounting Screw Size	Actuator	Roller Lever
Voltage	Termination	PCB Straight
Approvals  CE, CSA, UL  Actuator Length  16,5 mm [0.65 in]  Contact Type  Silver  Operating Force (O.F.)  0,59 N [2.12 oz] max.  Release Force (R.F.)  0,15 N [0.53 oz] min.  Pretravel (P.T.)  3,8 mm [0.150 in] max.  Overtravel (O.T.)  O,8 mm [0.032 in] min.  Differential Travel (D.T.)  0,8 mm [0.032 in] max.  Operating Position (O.P.)  17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]  Free Position (F.P.)  22,1 mm [0.870 in] max.  Housing Material  Polyamide (Nylon)  Humidity  Max. 85% RH at 40 °C [104 ° F]  High Temperature  85 °C [185 °F]  Mechanical Service Life  Min. 5,000,000 operations  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life  Min. 6,000 operations on resistive load current 5 A at 125/2¹ vac  Electrical Operating requency  CE mark  61058-1  UL File #  E12252  CSA File #  Agency Approvals and Standards  Mounting Screw Size  Agency Approvals and Standards  Mounting Centers  Mounting Centers  Maximum Tightening or		-25 °C to 85 °C [-13 °C to 185 °C]
Actuator Length Contact Type Silver Operating Force (O.F.) O,59 N [2.12 oz] max. Release Force (R.F.) O,15 N [0.53 oz] min. Pretravel (P.T.) 3,8 mm [0.150 in] max. Overtravel (O.T.) O,8 mm 0.032 in] min. Differential Travel (D.T.) Operating Position (O.P.) 17,5 mm ± 0,8 mm [0.689 in ± 0.032 in] Free Position (F.P.) 22,1 mm [0.870 in] max. Operating Material Polyamide (Nylon) Humidity Max. 85% RH at 40 °C [104 ° F] High Temperature 85 °C [185 °F] Mechanical Service Life Min. 5,000,000 operations 1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life Min. 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Operating Frequency CE mark 61058-1 UL File # 212438 Agency Approvals and transfards Mounting Screw Size Agency Approvals and Mounting Centers Maximum Tightening Orque Availability Global UNSPSC Code UNSPSC Commodity FEY0010	Voltage	125/250 Vac
Contact Type Silver  Operating Force (O.F.) 0,59 N [2.12 oz] max.  Release Force (R.F.) 0,15 N [0.53 oz] min.  Pretravel (P.T.) 3,8 mm [0.150 in] max.  Overtravel (O.T.) 0,8 mm 0.032 in] min.  Differential Travel (D.T.) 0,8 mm [0.032 in] max.  Operating Position (O.P.) 17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]  Free Position (F.P.) 22,1 mm [0.870 in] max.  Housing Material Polyamide (Nylon)  Humidity Max. 85% RH at 40 °C [104 ° F]  Mechanical Service Life Min. 5,000,000 operations  Dielectric Strength India 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Operating requency Max. 400 operations per minute  Electrical Operating requency Max. 400 operations per minute  Electrical File # E12252  CSA File # 212438  Agency Approvals and standards Mounting Screw Size 2,3 mm [0.091 in] Flat fillister head  Mounting Centers 9,5 mm [0.37 in]  Maximum Tightening on 31 N m [2.7 in lb]  Orque Voca (Stock No.) FEY0010	Approvals	CE, CSA, UL
Operating Force (O.F.)         0,59 N [2.12 oz] max.           Release Force (R.F.)         0,15 N [0.53 oz] min.           Pretravel (P.T.)         3,8 mm [0.150 in] max.           Overtravel (O.T.)         0,8 mm 0.032 in] min.           Differential Travel (D.T.)         0,8 mm [0.032 in] max.           Operating Position (O.P.)         17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]           Free Position (F.P.)         22,1 mm [0.870 in] max.           Housing Material         Polyamide (Nylon)           Humidity         Max. 85% RH at 40 °C [104 ° F]           High Temperature         85 °C [185 °F]           Mechanical Service Life         Min. 5,000,000 operations           Dielectric Strength         1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute           Electrical Service Life         Min. 6,000 operations on resistive load current 5 A at 125/25/vac           Electrical Operating Frequency         Max. 400 operations per minute           CE mark         61058-1           UL File #         E12252           CSA File #         2,2 mm [0.091 in] Flat fillister head           Mounting Screw Size         2,3 mm [0.091 in] Flat fillister head           Mounting Centers         9,5 mm [0.37 in]           Maximum Tightening Orque         0,31 N m [2.7 in lb]	Actuator Length	16,5 mm [0.65 in]
Release Force (R.F.)         0,15 N [0.53 oz] min.           Pretravel (P.T.)         3,8 mm [0.150 in] max.           Overtravel (O.T.)         0,8 mm 0.032 in] min.           Differential Travel (D.T.)         0,8 mm [0.032 in] max.           Operating Position (O.P.)         17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]           Free Position (F.P.)         22,1 mm [0.870 in] max.           Housing Material         Polyamide (Nylon)           Humidity         Max. 85% RH at 40 °C [104 ° F]           High Temperature         85 °C [185 °F]           Mechanical Service Life         Min. 5,000,000 operations           Dielectric Strength         1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute           Electrical Service Life         Min. 6,000 operations on resistive load current 5 A at 125/25/vac           Electrical Operating requency         Max. 400 operations per minute           CE mark         61058-1           UL File #         212438           Agency Approvals and standards         1054           Mounting Screw Size         2,3 mm [0.091 in] Flat fillister head           Mounting Centers         9,5 mm [0.37 in]           Maximum Tightening orque         0,31 N m [2.7 in lb]           Availability         Global           UNSPSC Code         302119	Contact Type	Silver
Pretravel (P.T.)  Overtravel (O.T.)  O,8 mm (0.032 in] min.  Differential Travel (D.T.)  O,8 mm (0.032 in] max.  Operating Position (O.P.)  17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]  Free Position (F.P.)  22,1 mm [0.870 in] max.  Housing Material  Polyamide (Nylon)  Humidity  Max. 85% RH at 40 °C [104 ° F]  High Temperature  Min. 5,000,000 operations  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life  Min. 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Operating requency  CE mark  UL File #  CSA File #  Agency Approvals and standards  Mounting Screw Size  Mounting Centers  Maximum Tightening orque  Availability  Global  UNSPSC Code  UNSPSC Code  UNSPSC Commodity  Prod Code (Stock No.)  FBY0010	Operating Force (O.F.)	0,59 N [2.12 oz] max.
Overtravel (O.T.)  Differential Travel (D.T.)  Differential Travel (D.T.)  O,8 mm [0.032 in] max.  Operating Position (O.P.)  17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]  Free Position (F.P.)  22,1 mm [0.870 in] max.  Polyamide (Nylon)  Humidity  Max. 85% RH at 40 °C [104 ° F]  High Temperature  Min. 5,000,000 operations  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life  Min. 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Operating Frequency  CE mark  G1058-1  El12252  CSA File #  Agency Approvals and standards  Mounting Screw Size  Mounting Centers  Mounting Centers  Maximum Tightening Orque  Availability  UNSPSC Code  UNSPSC Code  UNSPSC Commodity  FBY0010	Release Force (R.F.)	0,15 N [0.53 oz] min.
Differential Travel (D.T.) Operating Position (O.P.) Free Position (F.P.) Free Position (F.P.)  Diagnate III	Pretravel (P.T.)	3,8 mm [0.150 in] max.
Operating Position (O.P.)  Free Position (F.P.)  17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]  Free Position (F.P.)  22,1 mm [0.870 in] max.  Polyamide (Nylon)  Humidity  Max. 85% RH at 40 °C [104 ° F]  High Temperature  Mechanical Service Life  Dielectric Strength  I,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life  Min. 6,000 operations on resistive load current 5 A at 125/29 Vac  Electrical Operating requency  CE mark  G1058-1  E12252  CSA File #  Agency Approvals and standards  Mounting Screw Size  Mounting Screw Size  Mounting Centers  Mounting Centers  Maximum Tightening orque  Availability  Global  UNSPSC Code  UNSPSC Code  UNSPSC Commodity  FBY0010	Overtravel (O.T.)	0,8 mm 0.032 in] min.
Free Position (F.P.)  22,1 mm [0.870 in] max.  Housing Material  Polyamide (Nylon)  Max. 85% RH at 40 °C [104 ° F]  High Temperature  85 °C [185 °F]  Mechanical Service Life  Dielectric Strength  I,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life  Min. 6,000 operations on resistive load current 5 A at 125/29 Vac  Electrical Operating Frequency  CE mark  G1058-1  E12252  CSA File #  Agency Approvals and chandards  Mounting Screw Size  Mounting Screw Size  Mounting Centers  Maximum Tightening Orque  Availability  Global  UNSPSC Code  UNSPSC Commodity  FBY0010	Differential Travel (D.T.)	0,8 mm [0.032 in] max.
Housing Material Polyamide (Nylon)  Max. 85% RH at 40 °C [104 ° F]  Migh Temperature  Min. 5,000,000 operations  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life Min. 6,000 operations on resistive load current 5 A at 125/25  Electrical Operating Frequency  Max. 400 operations per minute  Electrical File #  E12252  CSA File #  Agency Approvals and Standards  Mounting Screw Size Mounting Centers  Mounting Centers  Mounting Centers  Mounting Centers  Mounting Conder  Mounting Conder	Operating Position (O.P.)	17,5 mm ± 0,8 mm [0.689 in ± 0.032 in]
Humidity  Max. 85% RH at 40 °C [104 ° F]  High Temperature  85 °C [185 °F]  Mechanical Service Life  Min. 5,000,000 operations  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Electrical Service Life  Min. 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Operating requency  CE mark  61058-1  UL File #  E12252  CSA File #  Agency Approvals and standards  Mounting Screw Size  Mounting Centers  9,5 mm [0.091 in] Flat fillister head  Mounting Centers  9,5 mm [0.37 in]  Maximum Tightening orque  Availability  Global  UNSPSC Code  UNSPSC Commodity  Prod Code (Stock No.)  FBY0010	Free Position (F.P.)	22,1 mm [0.870 in] max.
High Temperature  Mechanical Service Life  Min. 5,000,000 operations  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Min. 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Service Life  Max. 400 operations per minute  Max. 400 operations per minute  Electrical Operating requency  CE mark  61058-1  UL File #  E12252  CSA File #  Agency Approvals and standards  Mounting Screw Size  Agency Approvals and standards  Mounting Centers  Mounting Centers  9,5 mm [0.091 in] Flat fillister head  Mounting Centers  9,5 mm [0.37 in]  Maximum Tightening orque  Availability  Global  UNSPSC Code  UNSPSC Commodity  Prod Code (Stock No.)  FBY0010	Housing Material	Polyamide (Nylon)
Mechanical Service Life Dielectric Strength  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Min. 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Operating frequency  CE mark  61058-1  UL File #  E12252  CSA File #  Agency Approvals and standards  Mounting Screw Size  Mounting Centers  Mounting Centers  Maximum Tightening forque  Availability  UNSPSC Code  UNSPSC Code  UNSPSC Commodity  FBY0010	Humidity	Max. 85% RH at 40 °C [104 ° F]
Dielectric Strength  1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute  Min. 6,000 operations on resistive load current 5 A at 125/25 Vac  Electrical Operating frequency  CE mark  61058-1  UL File #  E12252  CSA File #  Agency Approvals and standards  Mounting Screw Size  Mounting Centers  Maximum Tightening forque  Availability  UNSPSC Code  UNSPSC Commodity  Prod Code (Stock No.)  Jin None (20 Hz) between contacts, between terminate terminate (100 Hz) between contacts, between terminate (100 Hz) between contacts, between terminate (100 Hz) between contacts, between terminates (100 Hz) between terminates (100 Hz) between contacts, between terminates (100 Hz) betwee	High Temperature	85 °C [185 °F]
terminals and ground, for one minute  Min. 6,000 operations on resistive load current 5 A at 125/25  Electrical Operating frequency  CE mark  Glo58-1  UL File #  El2252  CSA File #  Agency Approvals and Standards  Mounting Screw Size  Mounting Centers  Maximum Tightening orque  Availability  UNSPSC Code  UNSPSC Commodity  FBY0010  Min. 6,000 operations on resistive load current 5 A at 125/25  Max. 400 operations per minute  Electrical Operating  Max. 400 operations per minute  Electrical Operations  Max. 400 operations per minute  Electrical Operations  Max. 400 operations on resistive load current 5 A at 125/25  Light Tight Tig	Mechanical Service Life	Min. 5,000,000 operations
Electrical Operating requency  CE mark  Glo58-1  UL File #  E12252  CSA File #  Agency Approvals and Standards  Mounting Screw Size  Mounting Centers  Maximum Tightening orque  Availability  UNSPSC Code  UNSPSC Commodity  Prod Code (Stock No.)  Max. 400 operations per minute  ### Colors of the colors operations per minute  ### Colors oper	Dielectric Strength	
CE mark  GE 12252  GEA File #  GE 12252  GEA File #  Agency Approvals and Standards  Mounting Screw Size  GE 12252  GEA File #  Agency Approvals and  GEA	Electrical Service Life	Min. 6,000 operations on resistive load current 5 A at 125/250 Vac
CSA File # 212438  Agency Approvals and Standards  Mounting Screw Size 2,3 mm [0.091 in] Flat fillister head  Mounting Centers 9,5 mm [0.37 in]  Maximum Tightening 7 o,31 N m [2.7 in lb]  Availability Global  UNSPSC Code 30211905  UNSPSC Commodity 30211905 Snap switches  Prod Code (Stock No.) FBY0010	• •	Max. 400 operations per minute
CSA File # 212438  Agency Approvals and Standards 1054  Mounting Screw Size 2,3 mm [0.091 in] Flat fillister head 9,5 mm [0.37 in]  Maximum Tightening orque 0,31 N m [2.7 in lb]  Availability Global 30211905  UNSPSC Code 30211905 Snap switches  Prod Code (Stock No.) FBY0010	CE mark	61058-1
Agency Approvals and Standards  Mounting Screw Size  2,3 mm [0.091 in] Flat fillister head  Mounting Centers  9,5 mm [0.37 in]  Maximum Tightening orque  Availability  Global  UNSPSC Code  UNSPSC Commodity  Prod Code (Stock No.)  1054  2,3 mm [0.091 in] Flat fillister head  9,5 mm [0.37 in]  0,31 N m [2.7 in lb]  Global  30211905  Snap switches	UL File #	E12252
Mounting Screw Size 2,3 mm [0.091 in] Flat fillister head  Mounting Centers 9,5 mm [0.37 in]  Maximum Tightening o,31 N m [2.7 in lb]  Orque Global  UNSPSC Code 30211905  UNSPSC Commodity 30211905 Snap switches  Prod Code (Stock No.) FBY0010	CSA File #	212438
Mounting Centers 9,5 mm [0.37 in]  Maximum Tightening 70,31 N m [2.7 in lb]  Availability Global  UNSPSC Code 30211905  UNSPSC Commodity 30211905 Snap switches  Prod Code (Stock No.) FBY0010		1054
Maximum Tightening orque  0,31 N m [2.7 in lb]  Availability  Global  UNSPSC Code  30211905  UNSPSC Commodity  30211905 Snap switches  Prod Code (Stock No.)  FBY0010	Mounting Screw Size	2,3 mm [0.091 in] Flat fillister head
Availability         Global           UNSPSC Code         30211905           UNSPSC Commodity         30211905 Snap switches           Prod Code (Stock No.)         FBY0010	Mounting Centers	9,5 mm [0.37 in]
UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches Prod Code (Stock No.) FBY0010		0,31 N m [2.7 in lb]
UNSPSC Commodity 30211905 Snap switches Prod Code (Stock No.) FBY0010	Availability	Global
Prod Code (Stock No.) FBY0010	UNSPSC Code	30211905
Prod Code (Stock No.) FBY0010	UNSPSC Commodity	30211905 Snap switches
Series Name ZM Series	Prod Code (Stock No.)	1 0 0010

ZM90G20F01

ZM Series, Subminiature Basic Switch, SPDT, 125/250 Vac, 10.1 A, Roller Lever Actuator, PCB Straight Termination 🕰 WARNING

### PERSONAL INJURY DO NOT USE these products as safety or emergency stop devices, or in any other

# application where failure of the product could result in personal injury.

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

# **A** WARNING

# MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
  - Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

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

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