## (0) Magnetiol ${ }^{\circ}$ <br> Model B40 Liquid Level Switch

## D E S CRIPTION

The Magnetrol ${ }^{\circledR}$ B40 liquid level switch is specifically designed and constructed for high pressure, high temperature service conditions.

## FEATURES

- Choices of chamber materials include carbon steel, stainless steel and chrome-moly
- 300 series stainless steel float.
- Choice of switch mechanism:

Dry contact
Hermetically sealed

- Minimum specific gravity 0.65
- Process temperatures up to $+1000{ }^{\circ} \mathrm{F}\left(+538{ }^{\circ} \mathrm{C}\right)$; Consult factory for process temperatures up to $+1200{ }^{\circ} \mathrm{F}\left(+650{ }^{\circ} \mathrm{C}\right)$
- Choice of switch mechanism enclosure:

TYPE 4X polymer coated steel
TYPE 4X/7/9 Class I, Div. 1, Groups C \& D, polymer coated aluminum or cast iron
TYPE 4X/7/9 Class I, Div. 1, Group B, polymer coated aluminum or cast iron

- Choice of tank connection:

1" welding nipples
1 " or $1 / 2 / 2$ socket welds

## O P T I O N S

- ATEX housing
- Flanged connections
- Temperature extensions
- Low specific gravity calibration
- ASME B31.1 Construction
- Additional QC testing


## A P P LICATIONS

- Accumulators
- Receivers
- Flare pots
- Scrubbers
- Flash tanks
- Knock-out drums
- Storage tanks
- Separators


B40 level switches employ permanent magnetic force as the only link between the float and the switching element. As the pivoted float follows liquid level changes, it moves a magnetic sleeve (1) into or out of the field of a switch actuating magnet (2) causing switch operation. A nonmagnetic barrier tube (3) effectively isolates the switch mechanism from the controlled liquid.


## AGENCYAPPROVALS

| AGENCY | APPROVED MODEL | APPROVAL CLASSES |
| :---: | :---: | :---: |
| FM $<_{\text {APPROVED }}^{\text {FM }}$ | All with an electric switch mechanism and a housing listed as TYPE 4X/7/9 | Class I, Div 1, Groups C \& D <br> Class II, Div 1, Groups E, F \& G |
|  | All with an electric switch mechanism and a housing listed as TYPE 4X/7/9 Class I, Div 1, Group B | Class I, Div 1, Groups B, C \& D Class II, Div 1, Groups E, F \& G |
| CSA | All with a Series HS, F, 8 or 9 electric switch mechanism and a housing listed as CSA TYPE 4X | Class I, Div 2, Groups A, B, C \& D |
|  | All with an electric switch mechanism and a housing listed as TYPE 4X/7/9 | Class I, Div 1, Groups C \& D Class II, Div 1, Groups E, F \& G |
|  | All with an electric switch mechanism and a housing listed as TYPE 4X/7/9 Class I, Div 1, Group B | Class I, Div 1, Groups B, C \& D Class II, Div 1, Groups E, F \& G |
| ATEX / IEC Ex (1) | All with an electric switch mechanism and an ATEX housing | ATEX II 2 G EEx d IIC T6 94/9/EC <br> IEC Ex Ex d IIC T6 IP 65 |
| CE <br> $C$ | Low Voltage Directive 2006/95/EC <br> Per Harmonized Standard: <br> EN 61010-1/1993 \& Amendment No. 1 | Installation Category II Pollution Degree 2 |

(1) IEC Installation Instructions:

The cable entry and closing devices shall be Ex d certified suitable for the conditions of use and correctly installed.
For ambient temperatures above $+55^{\circ} \mathrm{C}$ or for process temperatures above $+150^{\circ} \mathrm{C}$, suitable heat resistant cables shall be used.
Heat extensions (between process connection and housing) shall never be insulated.

## Special conditions for safe use:

When the equipment is installed in process temperatures higher than $+85^{\circ} \mathrm{C}$ the temperature classification must be reduced according to the following table as per IEC60079-0.

| Maximum Process <br> Temperature | Temperature <br> Classification |
| :---: | :---: |
| $<85^{\circ} \mathrm{C}$ | T 6 |
| $<100^{\circ} \mathrm{C}$ | T 5 |
| $<135^{\circ} \mathrm{C}$ | T 4 |
| $<200^{\circ} \mathrm{C}$ | T 3 |
| $<300^{\circ} \mathrm{C}$ | T 2 |
| $<450^{\circ} \mathrm{C}$ | T 1 |

[^0]

SERIES C, D, R \& S DRY CONTACT SWITCHES

- Designed for AC and DC current applications
- Process temperatures to $+1000{ }^{\circ} \mathrm{F}\left(+538^{\circ} \mathrm{C}\right)$; Consult factory for process temperatures up to $+1200{ }^{\circ} \mathrm{F}\left(+650{ }^{\circ} \mathrm{C}\right)$



## SERIES F, HS, 8 \& 9 HERMETICALLY SEALED SWITCHES

- Ideal for use in salt and other corrosive atmospheres
- HS is a positively pressurized capsule for entire mechanism and contacts
- Process temperatures to $+1000{ }^{\circ} \mathrm{F}\left(+538^{\circ} \mathrm{C}\right)$


## SWITCH ENCLOSURE

- TYPE 4X blue polymer coated carbon steel, weather resistant for non-hazardous areas
- TYPE 4X/7/9 blue polymer coated aluminum and cast iron enclosures
- Designed to meet Class I, Div. 1 Groups C \& D and Class I, Div. 1 Group B


TYPE 4X/7/9 Aluminum Enclosure


NEMA 4X/7/9 Cast Iron Enclosure


TYPE 4X Carbon Steel Enclosure

## ASME B 31.1 CONSTRUCTION

## PRODUCT DESIGN

Pressure vessels are designed within code specified stress limits. Design calculations, design prints and weld qualifications are available for audit. All chamber branch and circumferential weld joints are designed to achieve FULL penetration.

## MATERIALS OF CONSTRUCTION

All pressure-retaining materials are procured with Certificates of Conformance to assure compliance of components with required standards.

## WELDING

All welding is performed by qualified welders and per procedures required by the ASME Boiler Pressure Vessel Code Sec. IX. Welds are visually inspected for FULL penetration. All other non-destructive examination is performed per ANSI B31.1.

## HYDROSTATIC TEST

All chambers are hydrostatically tested at 1.5 times the design pressure.

## BASIC ELECTRICAL RATINGS

| Voltage | Switch Series and Non-Inductive Ampere Rating |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C | D | F | HS | R | $\mathbf{S}(\mathrm{AC})$ | $\mathbf{S}(\mathrm{DC})$ | $\mathbf{8}$ | $\mathbf{9}$ |  |
| 120 VAC | 15.00 | 10.00 | 2.50 | 5.00 | 1.00 | 15.00 | 10.00 | 1.00 | - |  |
| 240 VAC | 15.00 | - | - | 5.00 | 1.00 | 15.00 | - | - | - |  |
| 24 VDC | 6.00 | - | 4.00 | 5.00 | 1.00 | - | - | 3.00 | 0.50 |  |
| 120 VDC | 1.00 | 10.00 | 0.30 | 0.50 | 0.40 | 1.00 | 10.0 | - | - |  |
| 240 VDC | 0.50 | 3.00 | - | 0.25 | - | 0.50 | 3.00 | - | - |  |

## DIMENSIONALSPECIFICATIONS

## I NCHES (MM)



B40-PC40 and B40-HC40
NOTES:

1. Allow 8 inches ( 203 mm ) overhead clearance for cover removal.
2. Maximum ambient temperature at switch head should not exceed $+140^{\circ} \mathrm{F}\left(+60^{\circ} \mathrm{C}\right)$.

## DIMENSIONALSPECIFICATIONS (cont.)

## I NCHES (MM)



B40-1B60 and B40-2B60

INCHES (MM)


B40-1F30 and B40-2F30


B40-HF30 and B40-PF30

MATERIALS OF CONSTRUCTION/PRESSURE RATING PSI (BAR)

| Code | Chamber Material | Float Material ${ }^{(1)}$ | Tank Connection | Min. S.G. | Temperature ( ${ }^{\circ} \mathrm{F}$ ) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 100 | 500 | 750 | 800 | 1000 8 |
| 1F30 | Chrome-Moly © | 321/347 SS | 1" welding nipple | 0.65 | 2067 | 1777 | 1636 | 1615 | 651 |
| 1B60 |  |  | 1" socket weld |  | (142) | (122) | (112) | (111) | (44) |
| 2F30 | 304 SS | 316 SS | 1" welding nipple |  | 1857 | 1566 | 1294 | 1240 |  |
| 2B60 |  |  | 1" socket weld |  | (128) | (107) | (89) | (85) |  |
| 3C30 | Carbon Steel ${ }^{\text {(7) }}$ | 321/347 SS | $11 / 22^{\prime \prime}$ socket weld |  | $\begin{aligned} & 1925 \\ & (132) \end{aligned}$ | $\begin{aligned} & 1820 \\ & (125) \end{aligned}$ | $\begin{gathered} 1250 \\ (86) \end{gathered}$ | $\begin{gathered} 1100 \\ (75) \end{gathered}$ | $\begin{aligned} & 215 \\ & (14) \end{aligned}$ |
| 4C40 | 316 SS |  | $1{ }^{1} / 21$ socket weld |  | $\begin{aligned} & 3700 \\ & (255) \end{aligned}$ | $\begin{aligned} & 3543 \\ & (244) \end{aligned}$ | $\begin{aligned} & 3169 \\ & (218) \end{aligned}$ | $\begin{aligned} & 3129 \\ & (215) \end{aligned}$ | $\begin{aligned} & 3011 \\ & (207) \end{aligned}$ |
| 5C20 | Carbon Steel (7) |  | 1" socket weld |  | $\begin{aligned} & 2085 \\ & (143) \end{aligned}$ | $\begin{aligned} & 1820 \\ & (125) \end{aligned}$ | $\begin{gathered} 1350 \\ (93) \end{gathered}$ | $\begin{gathered} 1110 \\ (76) \end{gathered}$ | $\begin{aligned} & 165 \\ & (11) \end{aligned}$ |
| 1 C 50 | Chrome-Moly © |  | 1" weld coupling |  | $\begin{aligned} & 2533 \\ & (174) \end{aligned}$ | $\begin{aligned} & 2010 \\ & (138) \end{aligned}$ | $\begin{aligned} & 1872 \\ & (129) \end{aligned}$ | $\begin{aligned} & 1845 \\ & (127) \end{aligned}$ | $\begin{aligned} & 956 \\ & (65) \end{aligned}$ |
|  |  | (1) (2) (3) (4) (5) (6) (7) (8) | Float material based austenitic stainless st Consult factory for TY Aluminum enclosure I Process temperature On steam applications at $+100^{\circ} \mathrm{F}\left(+38^{\circ} \mathrm{C}\right)$ am Chrome-moly is grade Use caution when spe Consult factory for pro | n avai eels. <br> PE 4X <br> mited <br> based <br> , temp <br> mbient <br> P11/F <br> cifying <br> cess | ility. Bo <br> 9 cast <br> $+750^{\circ} \mathrm{F}$ <br> $+100^{\circ}$ <br> rature d <br> 1. <br> arbon s <br> peratur | 321SS <br> housin <br> $399^{\circ} \mathrm{C}$ <br> $+38^{\circ} \mathrm{C}$ ) <br> -rated <br> above <br> up to + | 347SS <br> hazard <br> bient. <br> $400^{\circ} \mathrm{F}$ <br> $0^{\circ} \mathrm{F}($ <br> $0^{\circ} \mathrm{F}$ (+ | stabiliz <br> locatio <br> $04^{\circ} \mathrm{C}$ ) <br> ${ }^{\circ} \mathrm{C}$ ). <br> ${ }^{\circ} \mathrm{C}$ ) | ocess |

## MODEL NUMBER

I NDUSTRIAL (continued)

ELECTRIC SWITCH MECHANISM AND ENCLOSURE FOR ALL MODELS (2)


ELECTRIC SWITCH MECHANISM AND ENCLOSURE FOR MODEL B40-5C20 ONLY

| Switch Description | $\begin{aligned} & \text { Process } \\ & \text { Temperature } \\ & \text { Range © } \end{aligned}$ | One Set <br> Point | TYPE 4X/7/9 Aluminum Enclosure (2)(3) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Class I, Div. 1 <br> Groups C \& D | Class I, Div. 1 Group B | ATEX <br> Ex II 2 G EEx d IIC T6 |
| Series C Snap Switch | $\begin{gathered} -40 \text { to }+450^{\circ} \mathrm{F} \\ \left(-40 \text { to }+232^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | CKB | CKK | CC9 |
|  |  | DPDT | CNB | CNK | CF9 |
| Series D Snap Switch for DC Current Applications | $\begin{gathered} -40 \text { to }+250^{\circ} \mathrm{F} \\ \left(-40 \text { to }+121^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | DKB | DKK | DC9 |
|  |  | DPDT | DNB | DNK | DF9 |
| Series F Snap Switch Hermetically Sealed | $\begin{gathered} -50 \text { to }+750^{\circ} \mathrm{F} \\ \left(-46 \text { to }+399^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | FKB | FKK | FC9 |
|  |  | DPDT | FNB | FNK | FF9 |
| Series HS 5 amp Snap Switch Hermetically Sealed w/Terminal Block (5) | $\begin{gathered} -50 \text { to }+5500^{\circ} \mathrm{F} \\ \left(-46 \text { to }+288^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | HM3 | HM4 | HA9 |
|  |  | DPDT | HM7 | HM8 | HB9 |
| Series HS 5 amp Snap Switch Hermetically Sealed w/Wiring Leads (5) | $\begin{gathered} -50 \text { to }+550^{\circ} \mathrm{F} \\ \left(-46 \text { to }+288^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | HMJ | HMK | - |
|  |  | DPDT | HMS | HMT | - |


ASME
B 31 . 1
CONSTRUCTION

BASIC MODEL | B40-H | B40-H Liquid Level Switch for Temperatures Above $+750^{\circ} \mathrm{F}\left(+399^{\circ} \mathrm{C}\right) ~$ |
| :---: | :---: |

MATERIALS OF CONSTRUCTION/PRESSURE RATING PSI (BAR)

|  | Chamber Material | Float <br> Material | Tank Connection | Minimum S.G. | Temperature ${ }^{\circ} \mathrm{F}\left({ }^{\circ} \mathrm{C}\right)$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 750 | 800 | 1000 © |
| F30 | P11/F11 <br> Chrome-Moly | 321/347 SS ${ }^{(1)}$ | 1" butt-weld | 0.65 |  |  |  |
| B60 |  |  | 1" socket weld |  |  |  |  |
| C40 | $\begin{gathered} \text { A312/A479 } \\ \text { T316/316L SS } \end{gathered}$ |  | 11/2" socket weld |  | $\begin{aligned} & 3194 \\ & (220) \end{aligned}$ | $\begin{aligned} & 3155 \\ & (217) \end{aligned}$ | $\begin{aligned} & 3036 \\ & (209) \end{aligned}$ |

ELECTRIC SWITCH MECHANISM AND ENCLOSURE FOR MODEL B40-HXXX ONLY

| Switch Description | Process Temperature Range | One Set Point | CS/Aluminum | Cast Iron |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | TYPE 4X | Class I, Div 1, Groups C \& D | Class I, Div 1, Group B |
| Series R Snap Switch | $\begin{aligned} & -40 \text { to }+1000^{\circ} \mathrm{F} \\ & \left(-40 \text { to }+538^{\circ} \mathrm{C}\right) \end{aligned}$ | SPDT | R1M | RKM | RKW |
|  |  | DPDT | RDM | RNM | RNW |
| Series 9 Hermetically Sealed Snap Switch | $\begin{aligned} & -50 \text { to }+1000^{\circ} \mathrm{F} \\ & \left(-46 \text { to }+538^{\circ} \mathrm{C}\right) \end{aligned}$ | SPDT | 9AM | 9KM | 9KW |
|  |  | DPDT | 9DM | 9NM | 9NW |

(1) Float material based on availability. Both 321SS and 347SS are stabilized austenitic stainless steels.
(2) Aluminum enclosure limited to $+750^{\circ} \mathrm{F}\left(+399{ }^{\circ} \mathrm{C}\right)$ in hazardous locations.
(3) Process temperature based on $+100^{\circ} \mathrm{F}\left(+38^{\circ} \mathrm{C}\right)$ ambient.
(4) On steam applications, temperature down rated to $+400^{\circ} \mathrm{F}$ $\left(+204^{\circ} \mathrm{C}\right)$ process at $+100^{\circ} \mathrm{F}\left(+38^{\circ} \mathrm{C}\right)$ ambient.
(5) Use caution when specifying carbon steel above $+800^{\circ} \mathrm{F}$ ( $+427^{\circ} \mathrm{C}$ ).
(6) Consult factory for process temperatures up to $+1200^{\circ} \mathrm{F}$ $\left(+650{ }^{\circ} \mathrm{C}\right)$
A S ME
B 31 . 1
C
ONSTRUCTION

BASIC MODEL

| B40-P | B40-P Liquid Level Switch for Temperatures Up To and Including $+750{ }^{\circ} \mathrm{F}\left(+399^{\circ} \mathrm{F}\right)$ |
| :--- | :--- |

MATERIALS OF CONSTRUCTION/PRESSURE RATING PSI (BAR)

|  | Chamber Material | Float Material | Tank Connection | Minimum S.G. | Temperature ${ }^{\circ} \mathrm{F}\left({ }^{\circ} \mathrm{C}\right)$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 100 | 500 | 750 |
| F30 | P11/F11 <br> Chrome-Moly | 321/347 SS ${ }^{(1)}$ | 1" butt-weld | 0.65 | $\begin{aligned} & 1830 \\ & (126) \end{aligned}$ | $\begin{aligned} & 1734 \\ & (119) \end{aligned}$ | $\begin{aligned} & 1584 \\ & (109) \end{aligned}$ |
| B60 |  |  | 1" socket weld |  |  |  |  |
| C30 | A105/A106 (5) Carbon Steel |  | 1112" socket weld |  | $\begin{aligned} & 1701 \\ & (117) \end{aligned}$ | $\begin{aligned} & 1701 \\ & (117) \end{aligned}$ | $\begin{gathered} 1293 \\ (89) \end{gathered}$ |
| C40 | $\begin{gathered} \text { A312/A479 } \\ \text { T316/316L SS } \end{gathered}$ |  | $11 / 2$ socket weld |  | $\begin{aligned} & 3750 \\ & (258) \end{aligned}$ | $\begin{aligned} & 3571 \\ & (246) \end{aligned}$ | $\begin{aligned} & 3194 \\ & (220) \end{aligned}$ |
| C20 | A105/A106 (5) Carbon Steel |  | 1" socket weld |  | $\begin{aligned} & 1667 \\ & (114) \end{aligned}$ | $\begin{aligned} & 1667 \\ & (114) \end{aligned}$ | $\begin{gathered} 1267 \\ (87) \end{gathered}$ |



MODEL NUMBER
ASME
B 31.1
CONSTRUCTION (continued)

ELECTRIC SWITCH MECHANISM AND ENCLOSURE FOR MODEL B40-PXXX ONLY

| Switch Description | Process Temperature Range (3) | One Set <br> Point | TYPE 4X/7/9 Aluminum Enclosure (2) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Class I, Div. 1 <br> Groups C \& D | Class I, Div. 1 Group B | ATEX <br> Ex II 2 G EEx d IIC T6 |
| Series C Snap Switch | $\begin{gathered} -40 \text { to }+4500^{\circ} \mathrm{F} \\ \left(-40 \text { to }+232{ }^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | CKB | CKK | CC9 |
|  |  | DPDT | CNB | CNK | CF9 |
| Series D Snap Switch for DC Current Applications | $\begin{gathered} -40 \text { to }+250{ }^{\circ} \mathrm{F} \\ \left(-40 \text { to }+121^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | DKB | DKK | DC9 |
|  |  | DPDT | DNB | DNK | DF9 |
| Series F Snap Switch Hermetically Sealed | $\begin{gathered} -50 \text { to }+750{ }^{\circ} \mathrm{F} \\ \left(-46 \text { to }+399^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | FKB | FKK | FC9 |
|  |  | DPDT | FNB | FNK | FF9 |
| Series HS 5 amp Snap Switch Hermetically Sealed w/Terminal Block (4) | $\begin{gathered} -50 \text { to }+400{ }^{\circ} \mathrm{F} \\ \left(-46 \text { to }+204{ }^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | HM3 | HM4 | HA9 |
|  |  | DPDT | HM7 | HM8 | HB9 |
| Series HS 5 amp Snap Switch Hermetically Sealed w/Wiring Leads ${ }^{4}$ | $\begin{gathered} -50 \text { to }+400{ }^{\circ} \mathrm{F} \\ \left(-46 \text { to }+204{ }^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | HMJ | HMK | - |
|  |  | DPDT | HMS | HMT | - |
| Series R Snap Switch | $\begin{gathered} -40 \text { to }+750{ }^{\circ} \mathrm{F} \\ \left(-40 \text { to }+399^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | RKB | RKK | RC9 |
|  |  | DPDT | RNB | RNK | RF9 |
| Series S Snap Switch for AC Current Applications | $\begin{gathered} -40 \text { to }+550{ }^{\circ} \mathrm{F} \\ \left(-40 \text { to }+288^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | SKB | SKK | SA9 |
|  |  | DPDT | SNB | SNK | SB9 |
| Series S Snap Switch for DC Current Applications | $\begin{gathered} -40 \text { to }+250{ }^{\circ} \mathrm{F} \\ \left(-40 \text { to }+121^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | SLB | SLK | SC9 |
|  |  | DPDT | SOB | SOK | SF9 |
| Series 8 Hermetically Sealed Snap Switch | $\begin{gathered} -50 \text { to }+750{ }^{\circ} \mathrm{F} \\ \left(-46 \text { to }+399^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | 8 KB | 8KK | 8C9 |
|  |  | DPDT | 8NB | 8NK | 8F9 |
| Series 9 Hermetically Sealed Snap Switch | $\begin{gathered} -50 \text { to }+750{ }^{\circ} \mathrm{F} \\ \left(-46 \text { to }+399^{\circ} \mathrm{C}\right) \end{gathered}$ | SPDT | 9KB | 9KK | 9C9 |
|  |  | DPDT | 9NB | 9NK | 9F9 |

MAGNETROL REGISTERED TO


Your Assurance of Quality and Service

The quality assurance system in place at MAGNETROL guarantees the highest level of quality throughout the company. MAGNETROL is committed to providing full customer satisfaction both in quality products and quality service.

The MAGNETROL quality assurance system is registered to ISO 9001 affirming its commitment to known international quality standards providing the strongest assurance of product/service quality available.

## WARRANTY



All MAGNETROL mechanical level and flow controls are warranted free of defects in materials or workmanship for five full years from the date of original factory shipment.

If returned within the warranty period; and, upon factory inspection of the control, the cause of the claim is determined to be covered under the warranty; then,
MAGNETROL will repair or replace the con-
trol at no cost to the purchaser (or owner) other than transportation.

MAGNETROL shall not be liable for misapplication, labor claims, direct or consequential damage or expense arising from the installation or use of equipment. There are no other warranties expressed or implied, except special written warranties covering some MAGNETROL products.


[^0]:    These units are in conformity with IECEx KEM 05.0020X Classification Ex d IIC T6
    $\mathrm{T}_{\text {ambient }}-40$ to $+70^{\circ} \mathrm{C}$

