

## KMB4

"KMB4" BOX WITH PASSIVE SAFETY ZENER BARRIERS, FOR ATEX ENVIRONMENTS



Kit of three intrinsic protection Zener barriers, for connection of devices in ATEX area with devices in safe area, housed in an ABS box.

Marking of single barrier: ATEX II (1) GD [Ex ia Ga] IIC [Ex ia Da] IIIC.

Marking of the whole box with three Zener barriers:

ATEX II 3(1)G Ex nA [ia Ga] IIC T4 Gc ( $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ ) for gas

ATEX II 3(1)D Ex tb [ia Da] IIIC T130°C Dc IP65 ( $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ ) for dust.

The best solution  
for advanced industrial  
applications

## SINGLE CHANNEL FEATURES

- Barrier for signal and sense:  $U_m=250V$

Fuse: 50mA

$U_o$ : 17,4V

$I_o$ : 25mA

$P_o$ : 0,11W

$C_o$ : 0,346 $\mu$ F

$L_o$ : 56,88mH

$R_{min}$ : 705,6Ohm

- Barrier for supply:  $U_m=250V$

Fuse: 100mA

$U_o$ : 24V

$I_o$ : 164mA

$P_o$ : 0,98W

$C_o$ : 0,125 $\mu$ F

$L_o$ : 1,32mH

$R_{min}$ : 1470hm

- NOTES:

- Connection with up to 4 load cells of 350 ohm each.

- The combination of two or more Zener barriers (1) GD [Ex ia] implies that the Atex marking of the barriers assembly must be update to (2) GD [Ex ib], as required by the EN 60079-14 standard.



### WARNING

The KMB4 kit can be placed in ATEX zone according to its ATEX marking or in alternative in a safe area.



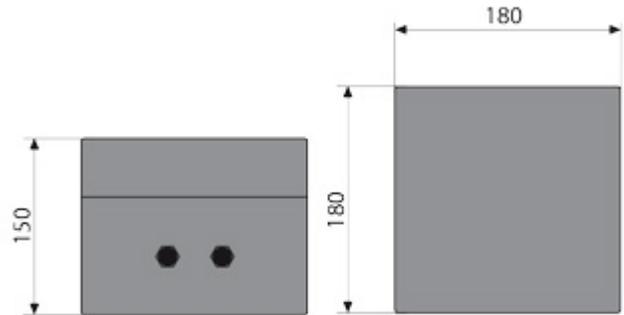
The electric coordination, executed for realizing the DCATEXMB4 certificate, involves the use of the LCCB/EXCB6 cable, maximum length of 200m (greater lengths upon price estimate).

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## DETAIL 1



## DETAIL 2



KMB4: dimensions in mm.

## DETAIL 3



3 zener barriers for load cell supply, signal, and sense.  
Suitable for mounting on a DIN bar in a safe area, or in a hazardous-proof case (Exd) in an ATEX area.



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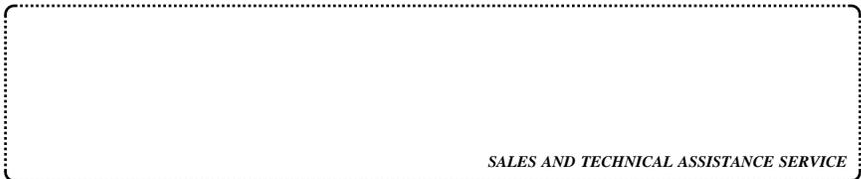


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