

Device Description:

Intrinsically safe CCTV camera IKA-1 is designed to deliver real time color image from chambers with danger of methane and / or coal dust explosion using asymmetric coaxial line 75Ω (in version "CC"), symmetric line 110Ω (in version "CT") or SM fiber optic (in version "SM"). The image is transmiting to surface or underground video preview posts. The camera has lens with automatically regulated shutter, depending on the light intensity. In case of very low light intensity the converter automatically switches into black and white mode.



IKA-1

Intrinsically Safe CCTV Camera

Technical characteristics:

ATEX certificate number **KDB 13 ATEX 0017X**

Supply parameters:

Supply voltage U 11,5 ÷ 15 VDC Maximum supply voltage U 15,8 VDC

Supply current I_N for version:

IKA-1/CC, IKA-1/CT 210 mA IKA-1/SM 260 mA 2 A

Maximum supply current Video signal parameters:

Asymmetric video signal (IKA-1/CC):

- Output impedance 75 Ω - Output signal level

1 Vpp

Symmetric video signal (IKA-1/CT): - Output impedance 110 Ω

- Output signal level 1 Vpp Optical video signal (IKA-1/SM):

- Transmitter wave length 1310 nm - Optical connector type LC

- Fiber optic connector type HAN 3A 2xLC duplex - Fiber optic type SM $9/125 \mu m$

- Optical power -8,5 dBm

Lens and converter parameters: Image converter type CCD 1/3"

Minimum illumination: color mode for F1,2 0,05 Lux

black and white mode for F1,2 0.0001 Lux 3 ÷ 8 mm Focal change range

0,95 Shutter change range Angle of view:

f = 3 mm 94,3 x 68,9° 36,0 x 26,9° f = 8 mmNormal working conditions:

Device category

Casing type Ex ia op is I Ma Gas explosiveness group

2 kg 0°C ÷ 40°C Weight Working temperature range max 95% Air humidity

Casing protection degree IP65 Mechanical exposure low

Type of work continuous

Example of use:





