Device Description:

Safety circuit module ATX124 was designed as intrinsically safe module. It provides monitoring of parametric safety circuit, which status reflects on status of output contacts of the module. The device provides SIL 4 degree of functional safety according to PN-EN 61508 norm in range of temperatures from 0 to 40°C and SIL 3 in range of temperatures from 0 to 70°C. Because of type of implemented intrinsically safe construction, there is version ATX124/12 (for supply voltage 9,5 to 13 V) and ATX124/15 (for supply voltage 12,5 to 15 V). The construction of module meets the requirements of IEC61131 norm in range of standarization of functional and operational features and programming process. To keep appropriate intrinsically safe feature, the module should be build in casing with at least IP54 protection degree and meeting the requirements of EN 60079-11:2012 norm.

▼ Technical characteristics:

ATEX certificate number	FTZÚ 07 ATEX 0346X

Supply parameters:

Supply voltage U_N

for version ATX124/12	9,5 ÷ 13 VDC
for version ATX124/15	12,5 ÷ 15 VDC

Maximum Supply voltage U_I

for version ATX124/12	13,8 VDC
for version ATX124/15	15,8 VDC

Supply current I_N

for version ATX124/12	< 130 mA
for version ATX124/15	< 120 mA

PFHD	$5,5 \cdot 10^{-9}$

Normal working conditions:

Casing type

in device with casing protection degree Ip54	I M1 Ex ia I Ma
in device with flameproof casing	I (M1) [Ex ia Ma] I

Environment temperature

for SIL 3	0 ÷ 70°C
for SIL 4	0 ÷ 40°C
Air humidity	max 95%

AUTOMATION AND CONTROL FOR MINING