



Device Description:

TS-AX light boards are intended to work in the underground part of mining plants in chambers with a, b or c degree of methane explosion danger. They are used as information or warning signs in mining machines control circuits. There is a possibility to program different information or warning inscriptions to be displayed, depending on the customer needs. Light boards are made in LED technology, what provides long durability, work in wide range of supply voltage and very low power consumption.

Technical characteristics:

ATEX certificate number	FTZÚ 03 ATEX 0365
Supply parameters:	
Supply voltage U_N	10 ÷ 15 VDC
Supply current I_N	35 ÷ 330 mA
Switch-on audio signal voltage U_A	5 VDC ±10%
Switching field voltage U_B	> 5 VDC ±10%
Light field control output	type OC (open collector) $I_{max} < 1,5 A$
Input circuits	input to the switch box
Output circuits	control outputs separately for each field
Normal working conditions:	
Device Group	I
Device category	M1
Casing type	Ex ia I
Working temperature range	0°C ÷ 40°C
Casing protection degree	IP65
Number of outlets / cable connectors	2

Other types of implementation:

TS-AX/II/CZ	one light field switching between red and green color
TS-AX/II/C	one red light field
TS-AX/II/Z	one green light field
TS-AX/II/ZO	one yellow light field
TS-AX/II/2CZ	bilateral board with one light field switching between red and green color
TS-AX/II/2C	bilateral board with one red light field
TS-AX/II/2Z	bilateral board with one green light field
TS-AX/II/2ZO	bilateral board with one yellow light field
TS-AX/III/ZW	two rectangular light fields with inscription „NO ENTRY”
TS-AX/III/UT	two rectangular light fields with inscription „ATTENTION DAM”
TS-AX/III/SE/CZ	two round light fields: red and green (semaphore)
TS-AX/III/SE/CC	two round red light fields
TS-AX/III/SE/ZZ	two round green light fields
TS-AX/III/2SE/CZ	bilateral board with two round light fields: red and green (semaphore)
TS-AX/III/2SE/CC	bilateral board with two round red light fields
TS-AX/III/2SE/ZZ	bilateral board with two round green light fields
TS-AX/III/CZ	board with two light fields, first displays in red, second in green
TS-AX/III/CC	board with two light fields in red color
TS-AX/III/ZZ	board with two light fields in green color
TS-AX/III/4P	board with four light fields, every field with ability to alternately display two colors (red or green)