

CXL 450-3LW-SS-Ex

ATEX certified, 3 dBd, Omnidirectional Base Station Antenna for the 380 - 470 MHz Band in Hazardous

- CXL 450-3LW-SS-Ex is a 3 dBd, vertically polarized, omnidirectional base station antenna which covers the 380 - 470 MHz band in four models with up to 10 MHz overlap.
- The antenna is specified as ATEX antenna for use in zone 2 in potentially explosive areas.

DESCRIPTION

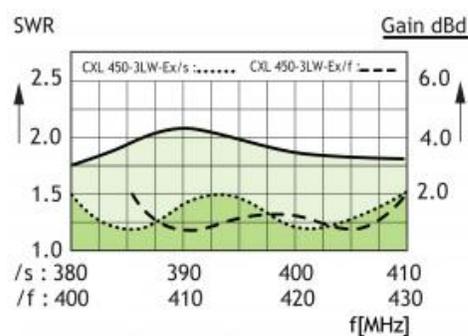
- Before installing the antenna, read the ATEX Product Manual carefully.
- The antenna is suitable for use in gas groups IIA, IIB and IIC in zone 2.
- It's only necessary to install a ATEX grounding Kit on the LW-SS-Ex bracket, when the point of installation has a different electrical potential than the system.
- The carefully designed collinear antenna radiating parts elements is made of brass tube and sealed in a high-quality conical glass fibre tube with low wind-load.
- The accompanying U-bolts and fittings are made of stainless steel.
- All metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.



ORDERING DESIGNATIONS

TYPE	FREQUENCY	PRODUCT NO.
CXL 450-3LW-SS-Ex/s	380 - 410 MHz	115000013
CXL 450-3LW-SS-Ex/f	406 - 430 MHz	115000014
CXL 450-3LW-SS-Ex/l	420 - 450 MHz	115000015
CXL 450-3LW-SS-Ex/h	440 - 470 MHz	115000016
ACCESSORIES		
ATEX grounding Kit		115000100

TYPICAL GAIN AND SWR CURVES

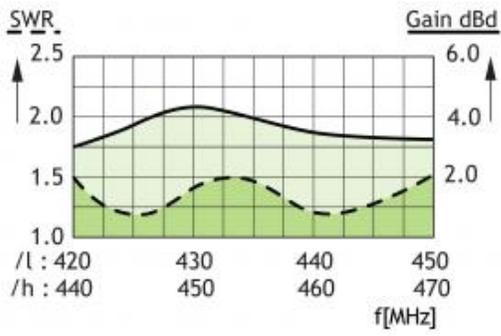


CALCULATION OF MAX. ANTENNA INPUT POWER IN DIFFERENT ATEX GROUPS

ATEX GROUP	MAX. EIRP POWER	ANTENNA GAIN	MAX INPUT POWER
IIA	37.7 dBm (6.0 W)	3 dBd / 5.15 dBi	32.6 dBm (1.8 W)
IIB	35.4 dBm (3.5 W)	3 dBd / 5.15 dBi	30.3 dBm (1.0 W)
IIC	33.0 dBm (2.0 W)	3 dBd / 5.15 dBi	27.8 dBm (0.6 W)

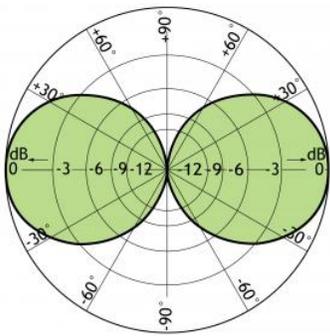
MULTI-PURPOSE MOUNTING BRACKET

TYPICAL GAIN AND SWR CURVES



LW-SS-Ex-beslag_mont_iso_GB_280x.jpg

TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

