

engineering, manufacturing, sales:

- membrane and industrial keyboards
- enclosures and front panels
- CNC sheet-metal forming
- touchscreen solutions
- system integration

surface technology:

- varnishing
- powder coating
- screen, pad and digital printing
- grinding, brushing, blasting
- EMI-/ESD-coating

✓ express service 5 – 10 – 15 working days

**RICHARD
WÖHR®**
GMBH

CUSTOMER INFORMATION | KDI00027

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„Ignition protection class and protection requirement“

		IGNITION PROTECTION CLASS	PROTECTION REQUIREMENT
EXPLOSION PROTECTION GASES, MISTS, VAPOURS (G)	ZONE 1	INCREASED SAFETY Ex e	Additional construction measures prevent inadmissible high temperatures as well as sparks and arcs inside and at the exterior parts of the lamp
		FLAMEPROOF ENCLOSURE Ex d	Parts that could function as a source of ignition are closed in an enclosure that withstands the pressure of an explosion inside the enclosure and that prevents that the explosion spreads to the surrounding explosive atmosphere
	ZONE 2	WITHOUT SPARKING Ex nA	The construction minimizes the occurrence of arcs, sparks or hot surfaces that can become an ignition risk, when used normally.
		RESTRICTED BREATHING ENCLOSURE Ex nR	The construction of the luminaire housing restricts the penetration of gas: Passing explosive gas can't penetrate the enclosure during the short contact.

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EXPLOSION PROTECTION	ZONE 21	PROTECTION BY THE ENCLOSURE dustproof	The construction protects from the penetration of dust in dangerous quantities (IP 6X) and ensures that the surface temperature is below the ignition temperature of dust/air mixtures and the glow temperature of dust accumulations.
	ZONE 22	PROTECTION BY THE ENCLOSURE dustproof	The construction protects from the penetration of dust in dangerous quantities (IP 5X) and ensures that the surface temperature is below the ignition temperature of dust/air mixtures and the glow temperature of dust accumulations.

If you have further questions – please contact us!

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