

EX-NANO80A

The intrinsically safe Ex-Nano80A miniature barcode reader facilitates automatic collection of plant data in hazardous areas category II 2G (zone 1). Owing to its compact size and rugged design, this miniature barcode reader is ideal for the harsh environments that prevail in the chemical industry.

Ex-classification in accordance with ATEX 95, directive 94/9/EG:	
Category:	II 2G
Type of protection:	EEx ib IIC T4
Approval:	BVS 04 ATEX E 027
Degree of protection:	IP 65
Reading characteristics:	
Scanning rate:	39 scans / sec
Reading distance:	10 – 75 cm
Scanning angle:	Typically 53°
Pitch (angle):	+/- 65° relative to normal
Skew (angle):	+/- 60° relative to normal
Roll (angle):	+/- 10° relative to normal
Laser class:	CDRH Class II/IEC Class 2
Laser power:	1,2 mW nominal
Contrast:	At least 25% absolute black/white reflection at 650 nm
Ambient conditions:	
Temperature range during operation:	-20 °C to + 55 °C
Temperature range storage:	-40 °C to + 60 °C
Humidity:	5% to 95% without condensation (48h stress test)
Ambient brightness:	Sunlight: 10.000 lux Artificial light max. 4.800 lux
Mechanical data:	
Weight (incl. storage battery):	approx. 385g (incl. Fastener and cable)
Cable length:	approx. 1,8m
Connections:	End sleeves for assembling terminals
Dimensions in mm:	55 x 47 x 55 (height x width x depth)
Power supply:	from decoder
Data interface:	RxD, TxD TTL to decoder
Barcodes:	
Base material:	Matt reflecting, not glossy
Colour:	Reflection < 25% at the relevant wavelength
Contrast	Base material to colour 37.5 % at the relevant wavelength
Accessories:	
Exi-Decoder EXDK-20-DEC2	Signal decoder