

36E12XXBASSC8 Cut Sheet



Wachendorff Automation WDG 36 series incremental (quadrature) rotary encoder, 5-32 VDC, universal (TTL line driver or HTL NPN/PNP open collector) output, NFC (wireless), medium duty, up to 14-bit (16384 ppr), multiple hollow shafts (6-12mm), IP65 and IP67, M12 male.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/36E12XXBASSC8>

Technical Specifications

Brand	Wachendorff Automation
Item	Encoder
Series	WDGN 36
Feedback Type	Incremental (quadrature)
Encoder Type	Rotary
Voltage Rating	5-32 VDC
Sensing Method	Magnetic
Encoder Output Type	Universal (TTL line driver or HTL NPN/PNP open collector)
Duty Rating	Medium duty
Communication Port and Connection Type(s)	NFC (wireless)
Programmable Encoder Resolution	Yes
Encoder Resolution	Up to 14-bit (16384 ppr)
Shaft Type	Hollow
Shaft Diameter	6mm, 1/4in, 7mm, 8mm, 3/8in, 10mm and 12mm
Radial Shaft Load	80N
Axial Shaft Load	50N

Frequency Response	600 kHz and 1 MHz
Speed Rating	12000 rpm
Flange Mount	No
Flange Diameter	36mm
Encoder Body Diameter	36mm
Housing Material	Stainless steel
IP Rating	IP65 and IP67
Protection Type(s)	• short circuit • reverse polarity
Exit Orientation	Radial
Connector Type	M12 male
Includes	WDGDS10021 encoder mounting plate
Requires	8-pin female M12 cable and WDGHA12 reducer bushing (12mm shaft does not require reducer)
Additional Information	Optional iPhone or Android app or NFCUSBREADER desktop NFC reader and WDG-CONFIG-TOOL software available for custom configuration
Manufacturer Part Number	WDGN 36E-12-XX-BAS-SC8

Agency Approvals

EU REACH	View EU REACH document
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Dimensional Drawings



2D Drawing PDF Link:
<https://cdn.automationdirect.com/static/drawings/2d/36E12XXBASSC8.pdf>
See store item page for other formats.