



JDCM36S Series
 Absolute Encoder
 Sensing method Magnetic
 Functional principle Multiturn
 Multiturn technology Mechanical gears without batteries
 Housing size $\Phi 36.5\text{mm}$
 Solid shaft $\Phi 6\text{mm}$
 Max. Resolution 28Bit
 Steps per turn 65536/16Bit
 Number of turn 4096/12Bit
 Interface SSI
 Supply voltage 10-30VDC
 Protection IP67

Mechanical characteristics

Shaft diameter	Solid shaft $\Phi 6\text{mm}$
Protection	IP67
Rotational speed	4000 rpm
Shaft loading	Max. $\leq 20\text{N}$ Axial; Max. $\leq 40\text{N}$ Radial
Shock resistance	100g, 6ms
Vibration resistance	10g, 10...2000Hz
Bearing life	10^9 turns
Material	Aluminium alloy
Shell material	Aluminium alloy
Operating temperature	$-40\text{ C} \dots +85\text{ C}$
Storage temperature	$-40\text{ C} \dots +85\text{ C}$
Weight	$\approx 130\text{g}$
Wiring method	Radial

Electrical characteristics

Interface	SSI
Transmission rate	0.1...1M/bit
Code	Gray code or binary
Transmission rate	RS422
Supply voltage	10-30VDC
No-load current	$\leq 100\text{mA}$
Counter direction	Settable (factory default face axis data increase clockwise)
External position	Settable switch on delay $> 100\text{ms}$
Anti-interference	EN61000-6-2
Launch interference	EN61000-6-4
Circuit protection	Surge protection 、 reverse power protection 、 ESD protection

Terminal assignment

SSI

Signal		0V	+V	C+	C-	D+	D-	SET	DIR
Color		WH	BN	GN	YE	GY	PK	BU	RD

Ordering information

JDCM36	XX	S	6	B	12	13	OCS1T	10-30	R	2	/	XXXX
	①	②	③	④	⑤	⑥		⑦	⑧	⑨		⑩

①Extended No. XX	②Shaft type S: Solid shaft	③Shaft diameter 6: Φ6mm	④Output code B: Binary G: Gray	⑤Resolution MT 12: 4096	⑥Resolution ST 12: 4096 13: 8192 14: 16384 15: 32768 16: 65536
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⑦Supply voltage 10-30: 10-30VDC	⑧Exit position R: Radial direction	⑨Connection type Figure: Cable length(m)	⑩Special code XXXX
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Note: Printed in bold=standard items

Notes: 1, Turns digit and single turns digit are common datas , other diameter on request.
 2, Please chose the ordering information: Extended No.、 Shaft diameter、 Multiturn resolution、 Singleturn resolution、 Connection type.
 3, lease contact us for further electrical parameter Settings and requirements.
 Ordering example: JDCM36S6B1213OCS1T10-30R2, Counting direction of the factory is set to clockwise increasing.
 Explanation: JDCM36S series, Solid shaft 6mm, Binary, Multiturn resolution ≤4096/12Bit、 Singleturn resolution ≤65536/16Bit,
 Data increse clockwise, Zero setting, SSI output, DC10-30V, Radial direction 2m, Protection IP67.

Dimensions

JDCM36S

