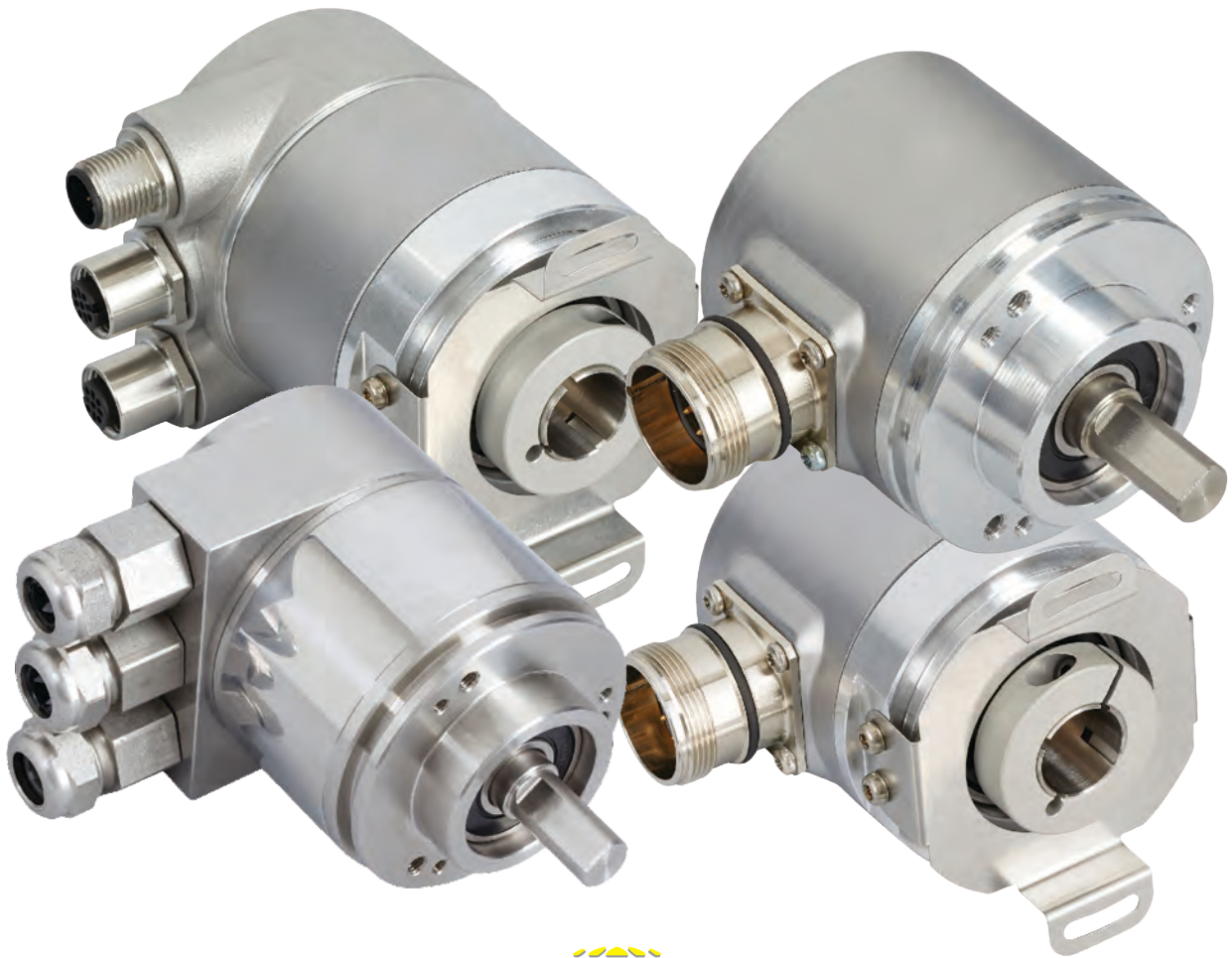


POSITAL

FRABA

Optical and Magnetic Absolute Encoders



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Absolute Magnetic Rotary Encoder Industrial Duty Analog 4-20mA Output



Part No.	Supply Voltage	Shaft Size	Programmable Revolutions
UCD-AC005-0013-R100-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 360°
UCD-AC005-0013-VCS0-PAM	8 - 32 Vdc	Blind Hollow 12 mm	Up to 360°
Multi Turn			
UCD-AC005-0413-R100-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 16 turns
UCD-AC005-0413-VCS0-PAM	8 - 32 Vdc	Blind Hollow 12 mm	Up to 16 turns

■ **Mating Connector Required**

Absolute Magnetic Rotary Encoder Industrial Duty Analog 0-10 VDC Voltage Output

Part No.	Supply Voltage	Shaft Size	Programmable Revolutions
UCD-AV002-0013-R100-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 360°
UCD-AV002-0013-VCS0-PAM	8 - 32 Vdc	Blind Hollow 12 mm	Up to 360°
Multi Turn			
UCD-AV002-0413-R100-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 16 turns
UCD-AV002-0413-VCS0-PAM	8 - 32 Vdc	Blind Hollow 12 mm	Up to 16 turns

■ **Mating Connector Required**

Absolute Magnetic Rotary Encoder Heavy Duty Analog 4-20mA Output



Part No.	Supply Voltage	Shaft Size	Programmable Revolutions
UCD-AC005-0013-D10D-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 360°
Multi Turn			
UCD-AC005-0413-D10D-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 16 turns

■ **Mating Connector Required**

Absolute Magnetic Rotary Encoder Heavy Duty Analog 0-10 VDC Voltage Output

Part No.	Supply Voltage	Shaft Size	Programmable Revolutions
UCD-AV002-0013-D10D-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 360°
Multi Turn			
UCD-AV002-0413-D10D-PAM	8 - 32 Vdc	Shaft 10 mm	Up to 16 turns

■ **Mating Connector Required**

Mating Connectors and Cables



Part No.	Description
34050515	M12, 5pin A-Coded Connector, Female
10017217-2m	2m PUR Cable with M12 5pin A-Coded female connector mounted
10017218-5m	5m PUR Cable with M12 5pin A-Coded female connector mounted
10017031-10m	10m PUR Cable with M12 5pin A-Coded female connector mounted


Absolute Optical Rotary Encoder Binary Coded
BIT-PARALLEL

Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-P1A1B-00AA-C10S-2AW	360	10 – 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-P1A1B-0012-C10S-2AW	4096	10 – 30 Vdc	Clamp Flange 10 mm	Single Turn

Several single-turn and multi-turn resolution options are available. Hollow shaft versions also available. Please enquire for more information.

■ Encoder has a 2m integrated cable coming out the back of the encoder.


Absolute Optical Rotary Encoder Bit Parallel Gray Coded
BIT-PARALLEL

Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-P1A1E-00AA-C10S-2AW	360	10 – 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-P1A1G-0012-C10S-2AW	4096	10 – 30 Vdc	Clamp Flange 10 mm	Single Turn

Several single-turn and multi-turn resolution options are available. Hollow shaft versions also available. Please enquire for more information.

■ Encoder has a 2m integrated cable coming out the back of the encoder.


Absolute Optical Rotary Encoder SSI


Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-S101G-0012-C10S-PRL	4096	4.5 to 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-S101G-0013-C10S-PRL	8192	4.5 to 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-S101G-0012-B15S-PRL	4096	4.5 to 30 Vdc	Blind Hollow 15 mm	Single Turn
OCD-S101G-0013-B15S-PRL	8192	4.5 to 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-S101G-1212-C10S-PRL	4096	4.5 to 30 Vdc	Clamp Flange 10 mm	4096
OCD-S101G-1213-C10S-PRL	8192	4.5 to 30 Vdc	Clamp Flange 10 mm	4096
OCD-S101G-1212-B15S-PRL	4096	4.5 to 30 Vdc	Blind Hollow 15 mm	4096
OCD-S101G-1213-B15S-PRL	8192	4.5 to 30 Vdc	Blind Hollow 15 mm	4096

■ Required Mating Connector: 1KG/PAL

Absolute Optical Encoders



Absolute Optical Rotary Encoder Profibus-DP



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-DPC1B-0012-C10S-H3P	4096	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-DPC1B-0013-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-DPC1B-0012-B15S-H3P	4096	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
OCD-DPC1B-0013-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-DPC1B-1212-C10S-H3P	4096	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-DPC1B-1213-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-DPC1B-1212-B15S-H3P	4096	10 - 30 Vdc	Blind Hollow 15 mm	4096
OCD-DPC1B-1213-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Connection Cap Included



Absolute Optical Rotary Encoder Profinet IO (RT + IRT)



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-EIA1B-0013-C10S-PRM	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-EIA1B-0013-B15S-PRM	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-EIA1B-1213-C10S-PRM	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-EIA1B-1213-B15S-PRM	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Required Mating Connectors: PAM5-2m and PAM4-2m or PAM5 and PAM4



Absolute Optical Rotary Encoder Profisafe (Profinet IO)



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-DPC1B-0012-C10S-H3P	4096	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-DPC1B-0013-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-DPC1B-0012-B15S-H3P	4096	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
OCD-DPC1B-0013-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-DPC1B-1212-C10S-H3P	4096	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-DPC1B-1213-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-DPC1B-1212-B15S-H3P	4096	10 - 30 Vdc	Blind Hollow 15 mm	4096
OCD-DPC1B-1213-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Connection Cap Included

Absolute Optical Encoders



Absolute Optical Rotary Encoder DeviceNet



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-D2B1B-0013-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-D2B1B-0013-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-D2B1B-1213-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-D2B1B-1213-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Connection Cap Included



Absolute Optical Rotary Encoder Ethernet/IP



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-EE00B-0013-C10S-PRM	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-EE00B-0013-B15S-PRM	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-EE00B-1213-C10S-PRM	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-EE00B-1213-B15S-PRM	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Required Mating Connectors: PAM5-2m and PAM4-2m or PAM5 and PAM4



Absolute Optical Rotary Encoder Ethernet Modbus TCP IP and Modbus / TCP

Ethernet Modbus TCP

Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-EM00B-0013-C10S-PRM	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-EM00B-0013-B15S-PRM	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-EM00B-1213-C10S-PRM	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-EM00B-1213-B15S-PRM	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Required Mating Connectors: PAM5-2m and PAM4-2m or PAM5 and PAM4

Absolute Optical Encoders



Absolute Optical Rotary Encoder EtherCat



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-D2B1B-0013-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-D2B1B-0013-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-D2B1B-1213-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-D2B1B-1213-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Connection Cap Included



Absolute Magnetic Rotary Encoder CANopen (DS 401)



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
UCD-CA01B-0012-R100-PAM	4096	9 - 30 Vdc	Shaft 10 mm	Single Turn
UCD-CA01B-0013-R100-PAM	8192	9 - 30 Vdc	Shaft 10 mm	Single Turn
UCD-CA01B-0016-R100-PAM	65 536	9 - 30 Vdc	Shaft 10 mm	Single Turn
UCD-CA01B-0012-VCS0-PAM	4096	9 - 30 Vdc	Blind Hollow 12 mm	Single Turn
UCD-CA01B-0013-VCS0-PAM	8192	9 - 30 Vdc	Blind Hollow 12 mm	Single Turn
UCD-CA01B-0016-VCS0-PAM	65 536	9 - 30 Vdc	Blind Hollow 12 mm	Single Turn
Multi Turn				
UCD-CA01B-1213-R100-PAM	8192	9 - 30 Vdc	Shaft 10 mm	4096
UCD-CA01B-1213-VCS0-PAM	8192	9 - 30 Vdc	Blind Hollow 12 mm	4096

■ Required Mating Connector: PAM5-2m.



Absolute Optical Rotary Encoder CANopen (DS 401)



Part No.	Steps per Revolution	Supply Voltage	Shaft Size	Number of Revolutions
OCD-CAA1B-0013-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	Single Turn
OCD-CAA1B-0013-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	Single Turn
Multi Turn				
OCD-CAA1B-1213-C10S-H3P	8192	10 - 30 Vdc	Clamp Flange 10 mm	4096
OCD-CAA1B-1213-B15S-H3P	8192	10 - 30 Vdc	Blind Hollow 15 mm	4096

■ Connection Cap Included

Inclinometers



Industrial Duty Inclinometers

Analog

Part No.	Interface	Measuring Range	Supply Voltage	Axis
ADS-080-2-AV20-HE2-2W	0-10 Vdc	+/- 80°	10 - 30 Vdc	2
ADS-180-1-AV20-HE2-2W	0-10 Vdc	180°	10 - 30 Vdc	1
ADS-360-1-AV20-HE2-2W	0-10 Vdc	360°	10 - 30 Vdc	1
ADS-080-2-AC00-HE2-2W	4-20 mA	+/- 80°	10 - 30 Vdc	2
ADS-180-1-AC00-HE2-2W	4-20 mA	180°	10 - 30 Vdc	1
ADS-360-1-AC00-HE2-2W	4-20 mA	360°	10 - 30 Vdc	1

■ Complete with 2m Cable.

Other Interfaces Available: CANopen, DeviceNet, SSI



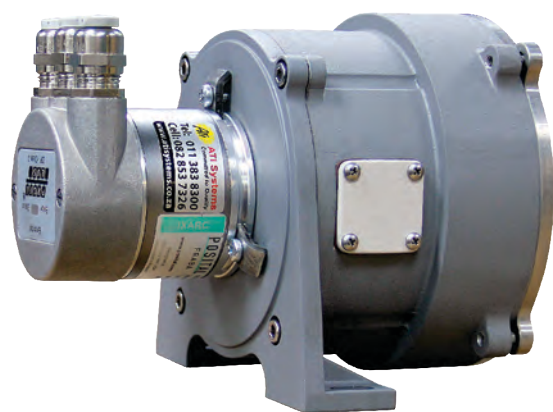
Heavy Duty Inclinometers

Analog

Part No.	Interface	Measuring Range	Supply Voltage	Axis
ADS-080-2-AV20-HK2-2W	0-10 Vdc	+/- 80°	10 - 30 Vdc	2
ADS-180-1-AV20-VK2-2W	0-10 Vdc	180°	10 - 30 Vdc	1
ADS-360-1-AV20-VK2-2W	0-10 Vdc	360°	10 - 30 Vdc	1
ADS-080-2-AC00-HK2-2W	4-20 mA	+/- 80°	10 - 30 Vdc	2
ADS-180-1-AC00-VK2-2W	4-20 mA	180°	10 - 30 Vdc	1
ADS-360-1-AC00-VK2-2W	4-20 mA	360°	10 - 30 Vdc	1

■ Complete with 2m Cable.

Other Interfaces Available: CANopen, DeviceNet, SSI



The Celesco Inclinometer is compatible with any Encoder or Rotary Transducer on the market

Refer to page 77 for more information on the Celesco Inclinometer

Celesco Inclinometer with Profibus Fraba Encoder

Accessories

Accessories



1KG/PAL

Part No.	Description
1KG/PAL	M23 type mating connector 12 pin
PAM4	M12 4 pin D-Coded moulded connector
PAM4-5m	M12 4 pin D-Coded moulded connector with 5m cable
PAM5	M12x1 5 pin A-Coded moulded connector
PAM5-2m	M12x1 5 pin A-Coded moulded connector with 2m cable
P8F	M12 8 pin A-Coded moulded connector
P8F-2M	M12 8 pin A-Coded moulded connector with 2m cable
RR8	Bore reducer for blind hollow shaft encoders from 15 mm to 8 mm
RR10	Bore reducer for blind hollow shaft encoders from 15 mm to 10 mm
RR12	Bore reducer for blind hollow shaft encoders from 15 mm to 12 mm



PAM5-2M/P8F-2M



PAM4-5M



RR Bore Reducers