

Draw Wire Encoder Plastic Case



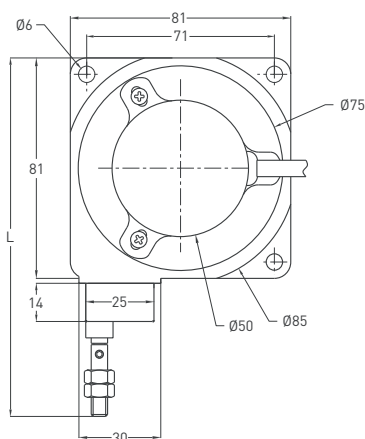
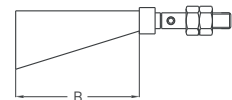
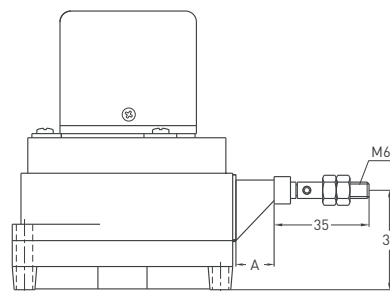
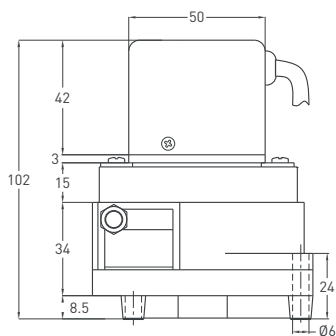
- Measuring length 500 - 3600 mm
- Incremental encoder output
Push-Pull, TTL, Linedriver or HLD



Technical Specifications

Measurement range	500 - 3600 mm
Type of measurement	Optical
Resolution	0,1 mm/pulse, 0,2 mm/pulse
Output signal	A, B, Z or A, $\bar{A}$, B, $\bar{B}$, Z, $\bar{Z}$
Output signal type	Push-Pull, TTL, Linedriver or HLD
Power supply	8 - 24 VDC, 5 VDC
Power consumption (without load)	< 40 mA (24 VDC)
Electrical connections	2.5 m cable (standard)
Case material	Aluminium / Steel / ABS Plastic
Weight	< 600 gr
Protection level	IP 54
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



		Measurement stroke	L
A	14 mm	Up to 2500 mm	132
B	50 mm	From 2500 mm to 3600 mm	168

Push-Pull Cable Output

+V : Brown
 0V : White
 GND : Shield
 Ch A : Yellow
 Ch B : Green
 Ch Z : Gray

TTL - High Linedriver Cable Output

+V : Brown
 0V : White
 GND : Shield
 Ch A : Yellow
 Ch B : Green
 Ch Z : Gray
 Ch A inv. : Blue
 Ch B inv. : Red
 Ch Z inv. : Pink

Ordering Procedure

Model	Case type	Measurement stroke	Output	Resolution	Output signal	Power supply	Connector/Cable	Cable output
DWE	1	500	LTP	P1000	Z	V2	2M5	R
DWE	1	500 - 3600 mm	TT : TTL LD : Linedriver LTP : Push-Pull HLD : High Linedriver	P1000 : 0,2 mm / pulse P2000 : 0,1 mm / pulse	Z : A, B, Z B : A, B, Z ZZ : $\bar{A}\bar{A}$, $\bar{B}\bar{B}$, $\bar{Z}\bar{Z}$	V1 : 5 VDC V2 : 8-24 VDC	2M5: 2.5 meter cable 5M : 5 meter cable 8M : 8 meter cable 10M : 10 meter cable	R: Radial A: Axial (optional)

Please note: The specifications and information in this datasheet may not cover all special demands arising from specific applications. Therefore, they do not constitute a comprehensive description of the product properties. OPKON accepts no responsibility for damages resulting from the improper application of our products. The user is responsible for ensuring that the products used are suitable for their own application.



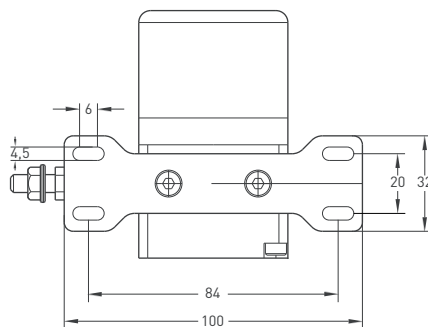
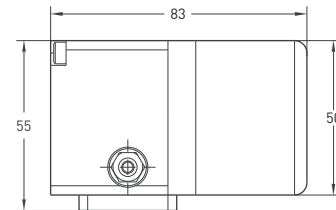
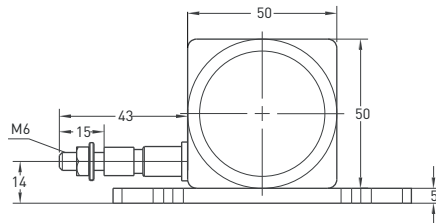
- Measuring length 100 - 1200 mm
- Incremental encoder output
Push-Pull, TTL, High Linedriver or Linedriver



Technical Specifications

Measurement range	100 - 1200 mm
Type of measurement	Optical
Resolution	0,1 mm/pulse, 0,2 mm/pulse
Output signal	A, B, Z or A, $\bar{A}$, B, $\bar{B}$, Z, $\bar{Z}$
Output signal type	Push-Pull, TTL, High Linedriver or Linedriver
Power supply	5 - 24 VDC, 5 VDC
Power consumption (without load)	< 40 mA (24 VDC)
Electrical connections	2.5 m cable (standard)
Displacement speed	2 m/s
Case material	Aluminium
Weight	< 500 gr
Protection level	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



Push-Pull Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray

TTL - High Linedriver - Linedriver Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray
Ch A inv. : Blue
Ch B inv. : Red
Ch Z inv. : Pink

Ordering Procedure

Model	Case type	Measurement stroke	Output	Resolution	Output signal	Power supply	Connektor/Cable	Cable output
DWEM	1	100	LTP	P1000	Z	V3	2M5	R
DWEM	1	100 - 1200 mm	TT : TTL LD : Linedriver LTP : Push-Pull HLD : High Linedriver	P1000 : 0,2 mm / pulse P2000 : 0,1 mm / pulse	Z : A, B, Z B : A, B, Z ZZ : AA, BB, ZZ	V1 : 5 VDC V3 : 5-24 VDC	2M5: 2.5 meter cable 5M : 5 meter cable 8M : 8 meter cable 10M : 10 meter cable	R: Radial A: Axial (optional)



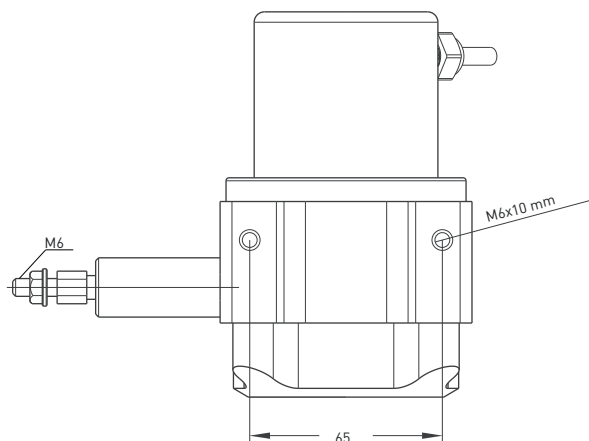
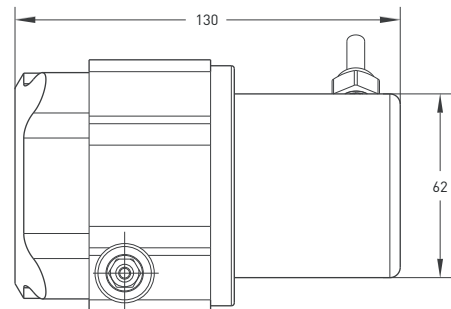
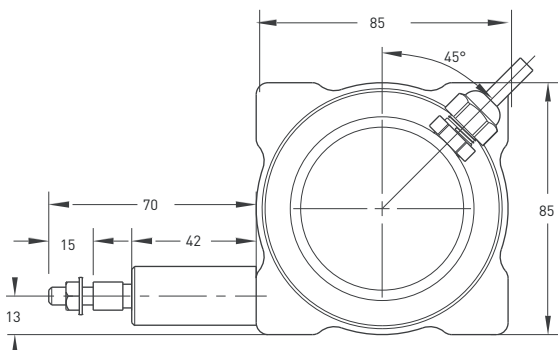
- Measuring length 1250 - 4200 mm
- Incremental encoder output
Push-Pull, TTL, High Linedriver or Linedriver



Technical Specifications

Measurement range	1250 - 4200 mm
Type of measurement	Optical
Resolution	0,1 mm/pulse, 0,2 mm/pulse
Output signal	A, B, Z or A, $\bar{A}$, B, $\bar{B}$, Z, $\bar{Z}$
Output signal type	Push-Pull, TTL, High Linedriver or Linedriver
Power supply	5 - 24 VDC, 5 VDC
Power consumption (without load)	< 40 mA (24 VDC)
Electrical connections	2.5 m cable (standard)
Displacement speed	2 m/s
Case material	Aluminium
Weight	< 1300 gr
Protection level	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



Push-Pull Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray

TTL - High Linedriver - Linedriver Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray
Ch A inv. : Blue
Ch B inv. : Red
Ch Z inv. : Pink

Ordering Procedure

Model	Case type	Measurement stroke	Output	Resolution	Output signal	Power supply	Connektor/Cable	Cable output
DWEM	2	2000	LTP	P1000	Z	V3	2M5	R
DWEM	2	1250 - 4200 mm	TT : TTL LD : Linedriver LTP : Push-Pull HLD : High Linedriver	P1000 : 0,2 mm / pulse P2000 : 0,1 mm / pulse	Z : A, B, Z B : A, B, Z ZZ : A $\bar{A}$, B $\bar{B}$, Z $\bar{Z}$	V1 : 5 VDC V3 : 5-24 VDC	2M5: 2.5 meter cable 5M : 5 meter cable 8M : 8 meter cable 10M : 10 meter cable	R: Radial A: Axial (optional)

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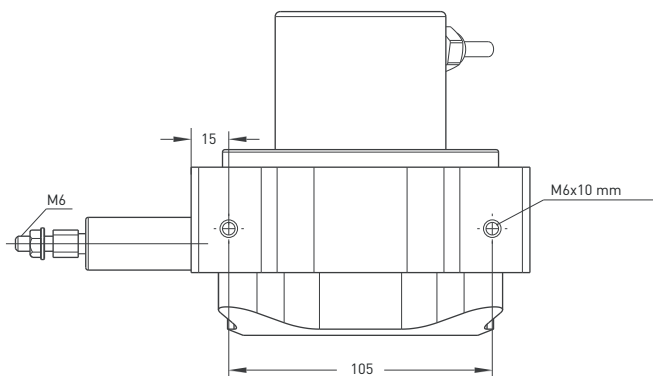
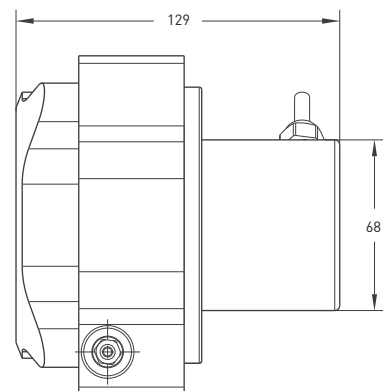
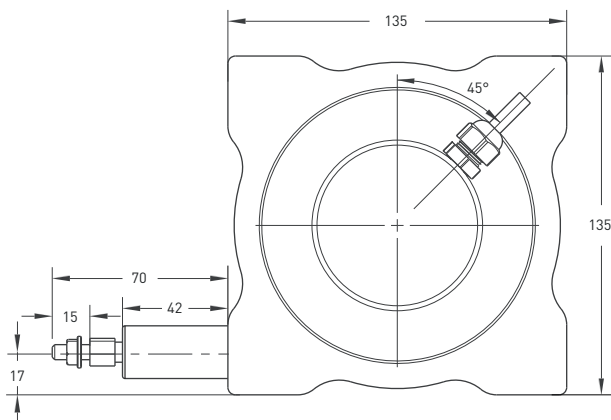
- Measuring length 4250 - 10000 mm
- Incremental encoder output
Push-Pull, TTL, High Linedriver or Linedriver



Technical Specifications

Measurement stroke	4250 - 10000 mm
Type of measurement	Optical
Resolution	0,1 mm/pulse 0,2 mm/pulse
Output signal	A, B, Z or A, $\bar{A}$, B, $\bar{B}$, Z, $\bar{Z}$
Output signal type	Push-Pull, TTL, High Linedriver or Linedriver
Power supply	5 - 24 VDC, 5 VDC
Power consumption (without load)	< 40 mA (24 VDC)
Electrical connections	2.5 m cable (standard)
Displacement speed	2 m/s
Case material	Aluminium
Weight	< 2200 gr
Protection level	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



Push-Pull Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray

TTL - High Linedriver - Linedriver Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray
Ch A inv. : Blue
Ch B inv. : Red
Ch Z inv. : Pink

Ordering Procedure

Model	Case type	Measurement stroke	Output	Resolution	Output signal	Power supply	Connektor/Cable	Cable output
DWEM	3	8000	LTP	P1000	Z	V3	2M5	R
DWEM	3	4250 - 10000 mm	TT : TTL LD : Linedriver LTP : Push-Pull HLD : High Linedriver	P1000 : 0,2 mm / pulse P2000 : 0,1 mm / pulse	Z : A, B, Z B : A, B, Z ZZ : $\bar{A}\bar{A}$, $\bar{B}\bar{B}$, $\bar{Z}\bar{Z}$	V1 : 5 VDC V3 : 5-24 VDC	2M5: 2.5 meter cable 5M : 5 meter cable 8M : 8 meter cable 10M : 10 meter cable	R: Radial A: Axial (optional)



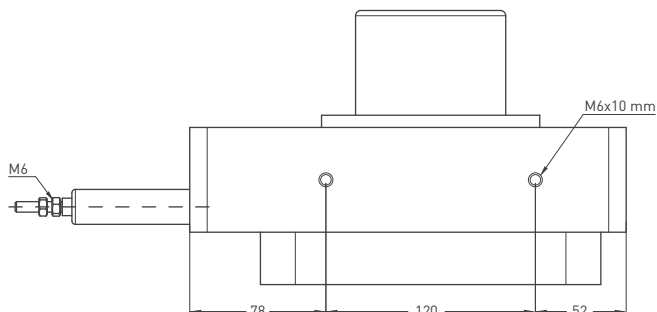
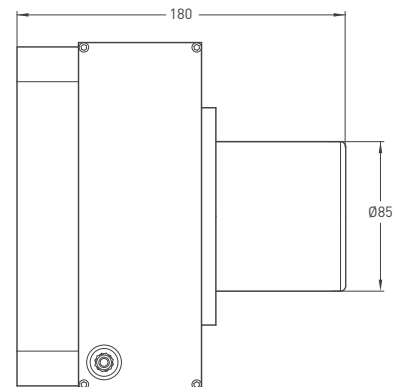
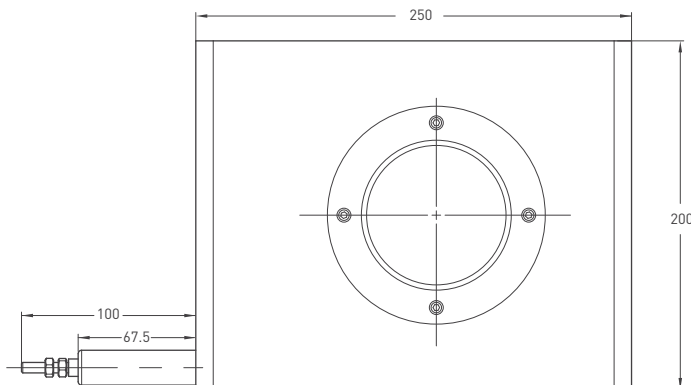
- Measurement length 10000 - 20000 mm
- Incremental encoder output
Push-Pull, TTL, High Linedriver or Linedriver



Technical Specifications

Measurement stroke	10000 - 20000 mm
Type of measurement	Optical
Resolution	0,1 mm/pulse 0,2 mm/pulse
Output signal	A, B, Z or A, $\bar{A}$, B, $\bar{B}$, Z, $\bar{Z}$
Output signal type	Push-Pull, TTL Linedriver or HLD
Power supply	5 - 24 VDC, 5 VDC
Power consumption (without load)	< 40 mA (24 VDC)
Electrical connections	2.5 m cable (standard)
Displacement speed	2 m/s
Case material	Aluminium
Weight	< 5000 gr
Protection level	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



Push-Pull Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray

TTL - High Linedriver - Linedriver Cable Output

+V : Brown
0V : White
GND : Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray
Ch A inv. : Blue
Ch B inv. : Red
Ch Z inv. : Pink

Ordering Procedure

Model	Case type	Measurement stroke	Output	Resolution	Output signal	Power supply	Connektor/Cable	Cable output
DWEM	4	15000	LTP	P1000	Z	V3	2M5	R
DWEM	4	10000 - 20000 mm	TT : TTL LD : Linedriver LTP : Push-Pull HLD : High Linedriver	P1000 : 0,2 mm / pulse P2000 : 0,1 mm / pulse	Z : A, B, Z B : A, B, Z ZZ : AA, BB, ZZ	V1 : 5 VDC V3 : 5-24 VDC	2M5: 2.5 meter cable 5M : 5 meter cable 8M : 8 meter cable 10M : 10 meter cable	R: Radial A: Axial (optional)