



# metreel

**CSS & CXL  
COLLECTOR COLUMNS**

[www.metreel.co.uk](http://www.metreel.co.uk)





# COLLECTOR COLUMNS

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Metreel collector columns and slipring assemblies are designed to transfer a multitude of power and control functions from a stationary to rotating or oscillating piece of equipment.

Metreel produces a comprehensive range of collector columns and sliprings. From the standard range (which can be adapted to suit specific requirements) to the special range which is designed to suit individual applications. The units can be designed to suit all environments and to accommodate special requirements, for example, fibre optic couplers and mercury transmitters.

All units are suitable for both power and control functions. CSS columns for low to medium current at low voltage, CL and CXL for low to high current at low to medium voltage. Many different sizes of slipring for differing current ratings can be accommodated in the CL and CXL columns. In addition to electrical functions, a rotary coupling can also be incorporated for oil or air supply. Special CXLH columns are also available for higher voltages up to 12KV.

Control sliprings can also be silver or gold plated with silver graphite brushes used, for example, in communication circuits and PLCs.



All collector columns are built as weatherproof units with easily removable covers for inspection and maintenance.

Collector columns and sliprings are designed to be continuously rated with a minimum of two brushes on each ring and meet the requirements of all current international standards.

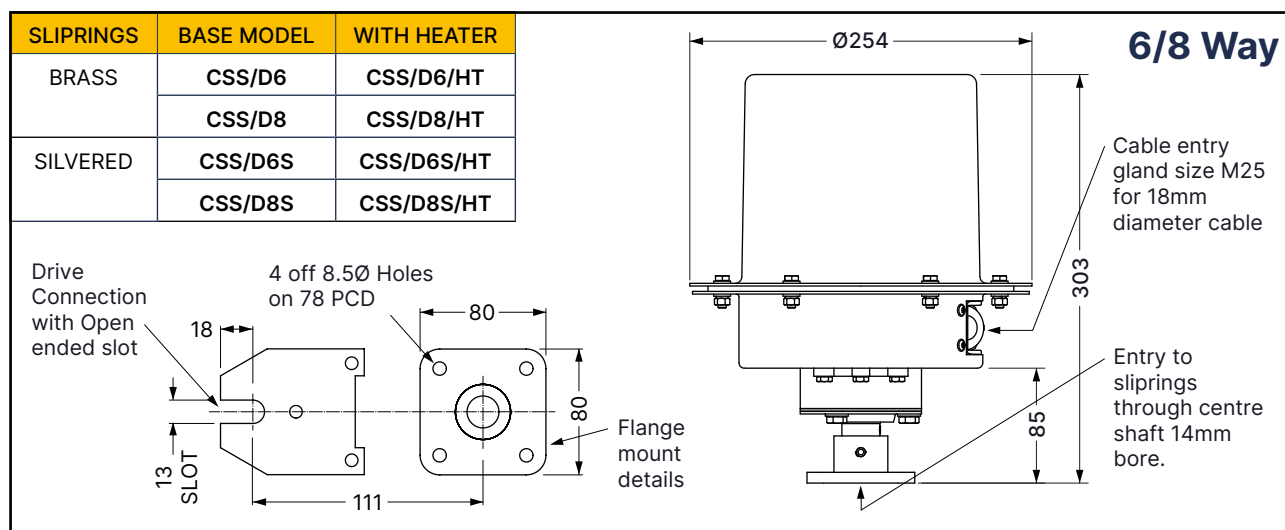
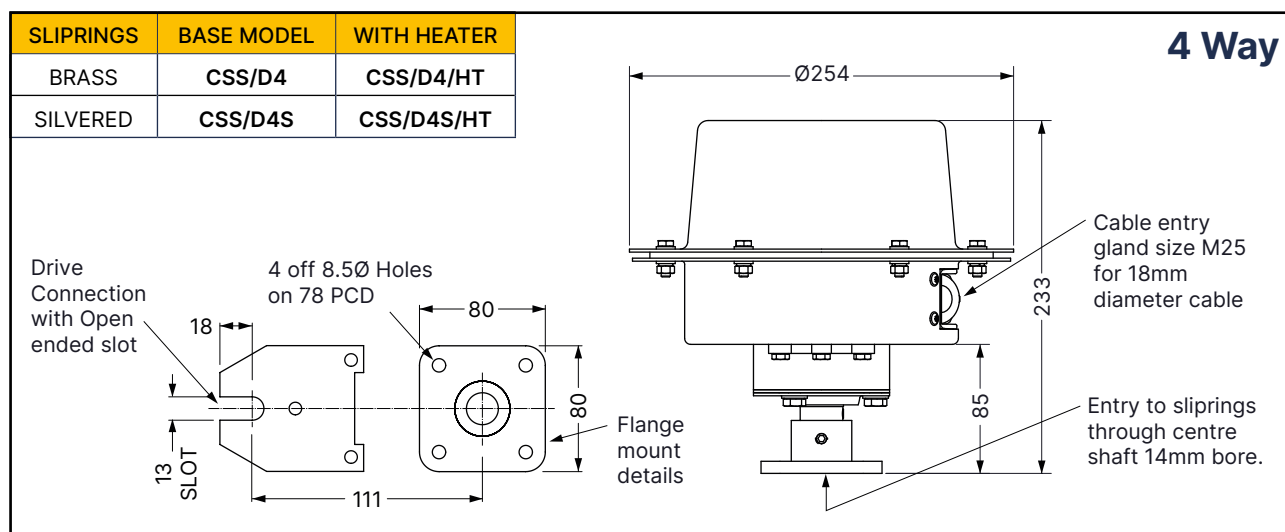
# CSS COLLECTOR COLUMNS

Metreel CSS collector columns incorporate sealed for life bearings with enclosures manufactured in accordance with IP65 and are suitable for continuous rotation in outdoor applications. A simple peg with adequate clearance should be used to rotate the housing via the drive connection, details below.

Power supply to the housing should be via cable or conduit. Standard M25 glands are supplied for the incoming supply on models up to 8 way, however the larger models require a gland connection fitting to the underside of the collector column base (not supplied). A 'P' clip is provided to clamp the incoming cable inside the housing.

An optional self-regulating anti-condensation heater can be fitted in the base of the column, if required.

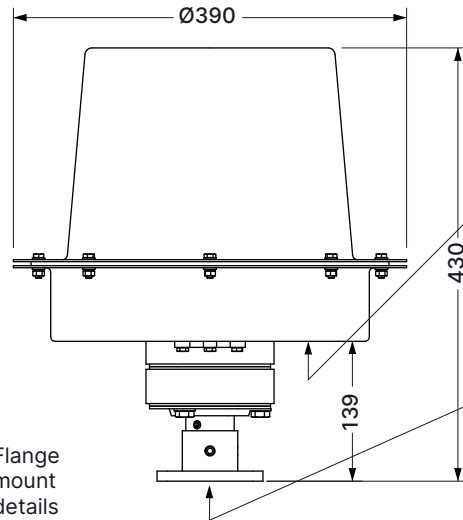
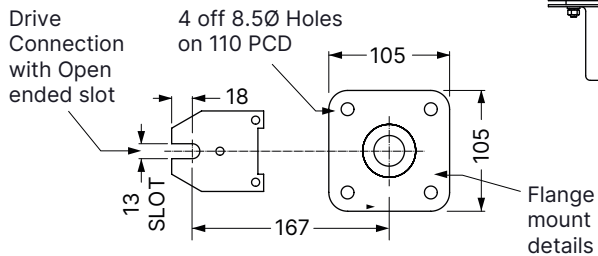
- ◆ Standard covers are fabricated from aluminium
- ◆ Top Entry covers are from mild steel and then over painted.
- ◆ Mounting flanges for all CSS columns are fabricated from mild steel and painted.
- ◆ Bearing housings and covers for the standard range are manufactured in aluminium.
- ◆ All external fasteners are manufactured from stainless steel.
- ◆ A range of standard and special paint finishes are available if preferred.
- ◆ Termination is via the incoming cable being connected to terminal blocks in the cover of the housing. Pre wired tails are also possible as an option, please specify length with your enquiry. Note that protection of the tails is customers responsibility.





SLIPRINGS	BASE MODEL	WITH HEATER
BRASS	CSS/D12	CSS/D12/HT
SILVERED	CSS/D12S	CSS/D12S/HT

## 12 Way

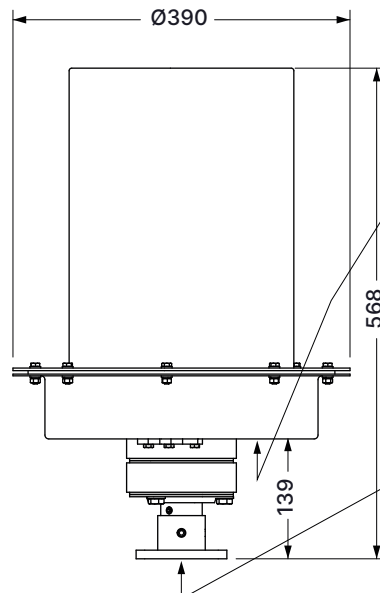
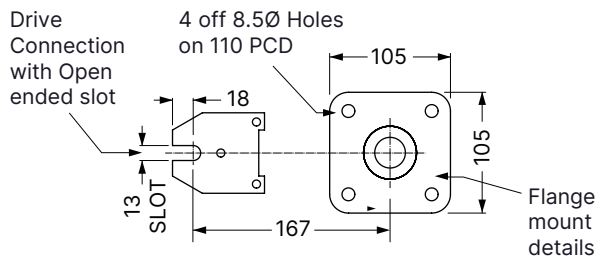


Incoming cable gland is not supplied. Client provide gland to suit their cable and fit gland direct to underside of base.

Entry to sliprings through centre shaft 28mm bore.

SLIPRINGS	BASE MODEL	WITH HEATER
BRASS	CSS/D16	CSS/D16/HT
	CSS/D20	CSS/D20/HT
	CSS/D24	CSS/D24/HT
SILVERED	CSS/D16S	CSS/D16S/HT
	CSS/D20S	CSS/D20S/HT
	CSS/D24S	CSS/D24S/HT

## 16/20/24 Way

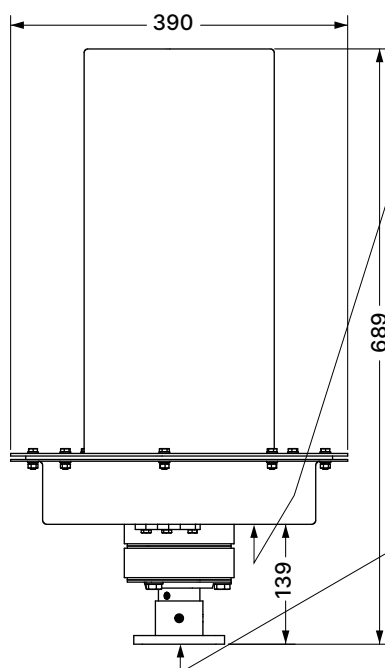
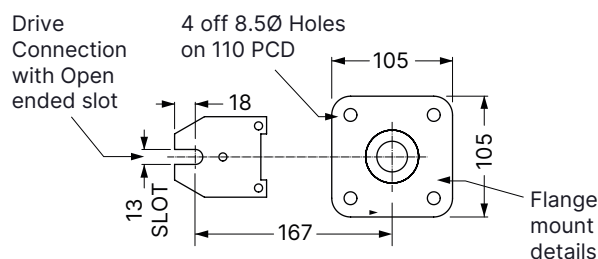


Incoming cable gland is not supplied. Client provide gland to suit their cable and fit gland direct to underside of base.

Entry to sliprings through centre shaft 28mm bore.

SLIPRINGS	BASE MODEL	WITH HEATER
BRASS	CSS/D32	CSS/D32/HT
SILVERED	CSS/D32S	CSS/D32S/HT

## 32 Way



Incoming cable gland is not supplied. Client provide gland to suit their cable and fit gland direct to underside of base.

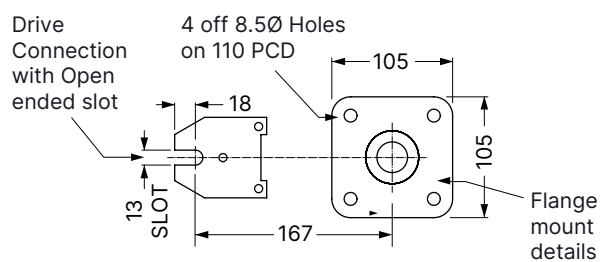
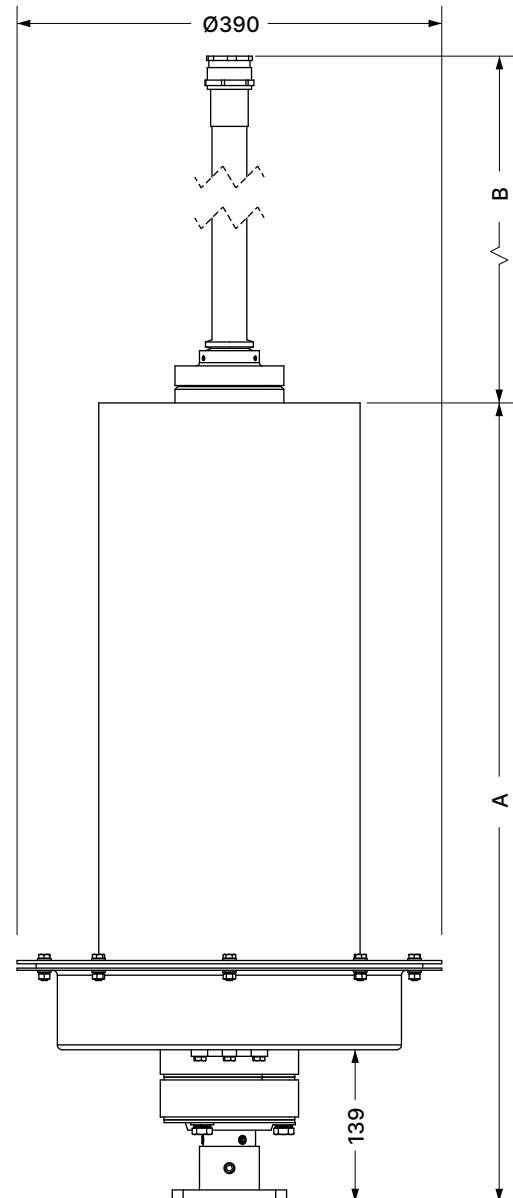
Entry to sliprings through centre shaft 28mm bore.

## CSS TOP ENTRY COLLECTOR COLUMNS

A range of top entry collector columns are also available with 8 rings as standard, sizes above this can be accommodated with a special design request.



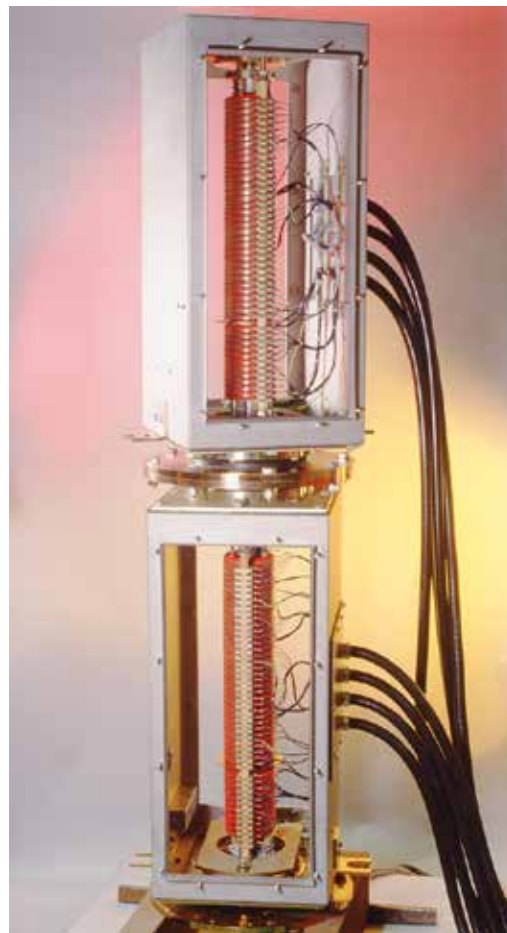
WAYS	A (MM)	B (MM)	BASE MODEL	WITH HEATER
4	458	705	CSS/D4/TE	CSS/D4/TE/HT
8	458	709	CSS/D8/TE	CSS/D8/TE/HT
12	598	677	CSS/D12/TE	CSS/D12/TE/HT
16	598	681	CSS/D16/TE	CSS/D16/TE/HT
20	733	654	CSS/D20/TE	CSS/D20/TE/HT
24	733	658	CSS/D24/TE	CSS/D24/TE/HT



## CL, CXL & SPECIAL APPLICATIONS

A range of heavy duty, extra heavy duty and special application collector columns for a virtually unlimited capacity of sliprings up to 600 amps and voltages of up to 12,000volts.

- ◆ Rotates on low friction sealed for life ball races.
- ◆ Control and low power rings can be internally wired to terminals blocks for ease of connection, high power and HV rings are provided with suitable connection point to facilitate direct connection of incoming wiring.
- ◆ Removeable gland plates supplied for incoming cables to brush gear.
- ◆ Readily adaptable to accept various mountings.
- ◆ Twin leg caliper type self-adjusting brush gear, easily removeable due to split construction of mounting clamp.
- ◆ Anti-condensation heaters available.
- ◆ Casings fabricated from steel and available in Stainless Steel, Hot Dip Galvanised, Zinc Plated or Powdercoat.
- ◆ Removeable covers for easy inspection.
- ◆ Unit can be manufactured to suit a variety of environments, including flameproof versions, hazardous area and highly corrosive locations.
- ◆ Perspex viewing windows can be fitted in access covers.



SLIPRING TYPE	CONTINUOUS CURRENT RATING (AMPS)	MAX VOLTAGE	COLLECTOR COLUMN RANGE		
A	30	600	CSS		
D	30	600			
B	15	500	CXL H	CXL	CL
P	100	600			
Q	200	600			
R	200	3300			
S	400	3300			
T	600	3300			
Z	400	12000			

