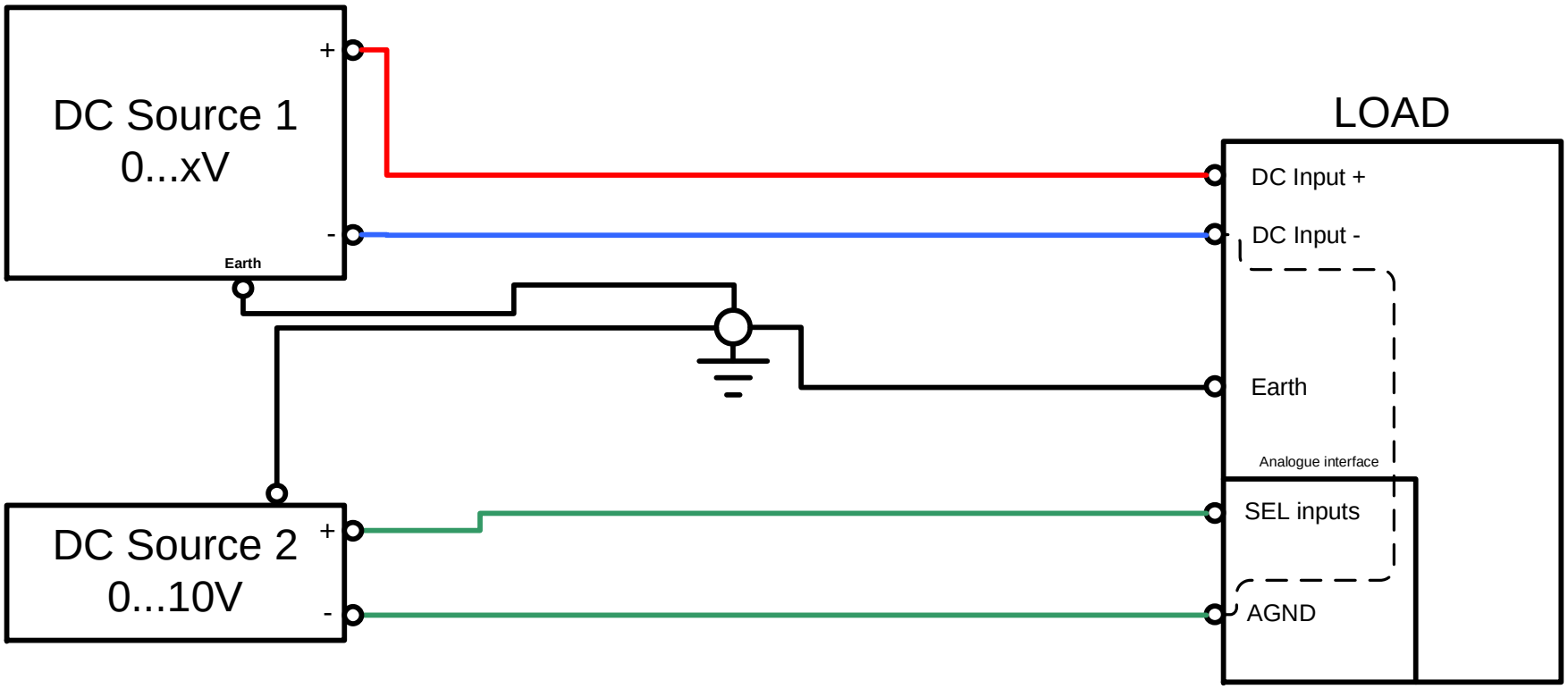
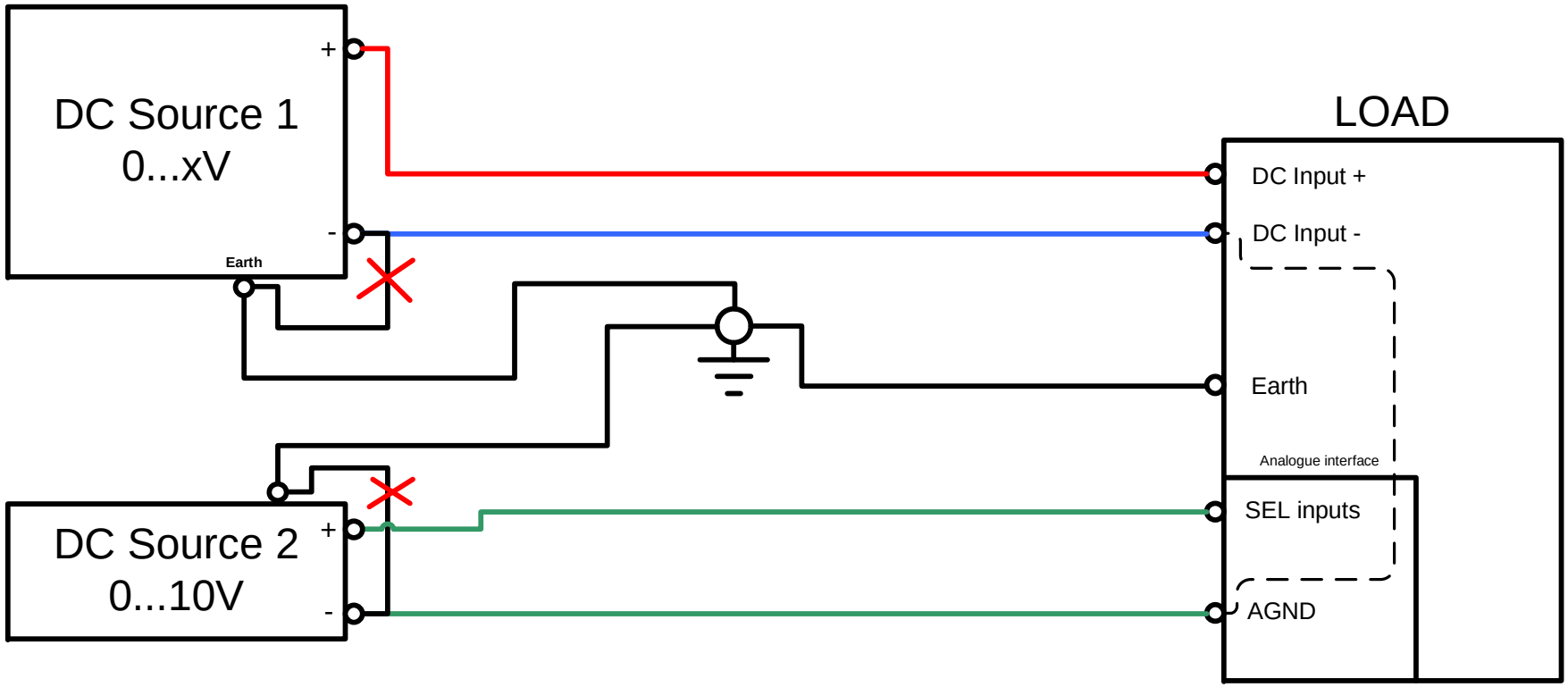


Correct wiring!

Additionally, **one** of the DC sources outputs or the load DC input may be grounded.

Minus DC input and AGND of the analogue interface are internally connected!

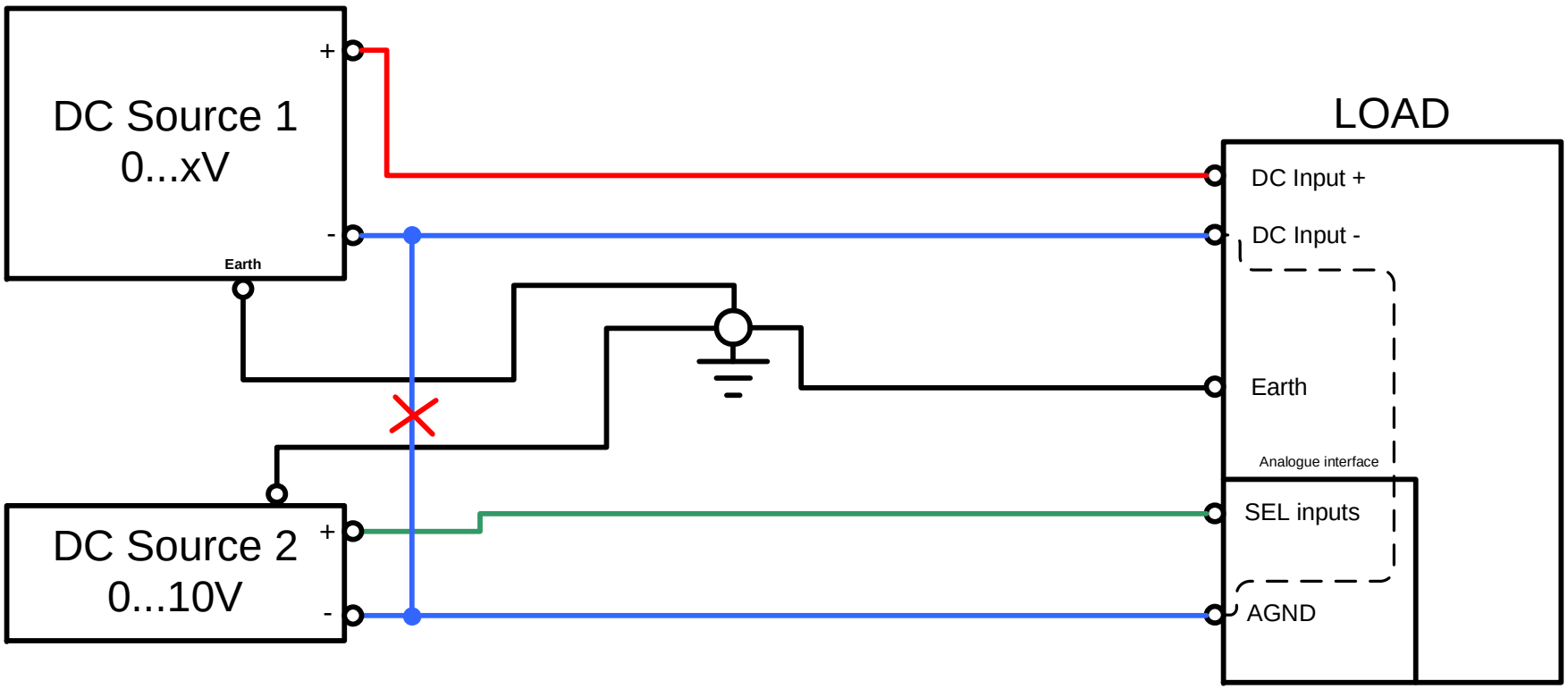
EA - Elektro Automatik	**Projekt**	**AN004: Wiring an analogue interface**
	Diagramm	Correct
	Thema	
	Projektleiter	
	Bearbeiter	Staberock
	Art. Nr.	
CAD Sys. MS-Visio		Seite 1 von 3



Minus DC input and AGND of the analogue interface are internally connected!

Wrong wiring!
The minus DC outputs of both source must not be grounded, because AGND now has the same potential as DC- and high current may flow.
If the connection between DC source 1 minus output and DC input - of the load is broken or removed, current will flow over AGND and damage the analogue interface

EA - Elektro Automatik	**Projekt**	**AN004: Wiring an analogue interface**	
	Diagramm	Wrong 1	
	Thema		
	Projektleiter		
	Bearbeiter	Staberock	
	Art. Nr.		
CAD Sys. MS-Visio			Seite 2 von 3



Wrong wiring!
The minus DC outputs of both source must not be connected, because AGND now has the same potential as DC- and high current may flow.
If the connection between DC source 1 minus output and DC input - of the load is broken or removed, current will flow over AGND and damage the analogue interface

Minus DC input and AGND of the analogue interface are internally connected!

EA - Elektro Automatik	**Projekt**	**AN004: Wiring an analogue interface**	
	Diagramm	Wrong 2	
	Thema		
	Projektleiter		
	Bearbeiter	Staberock	
	Art. Nr.		
CAD Sys. MS-Visio			Seite 3 von 3