

6LE003335C

RED115X



Ⓒ Secondary 2-wire line coupler

Overview

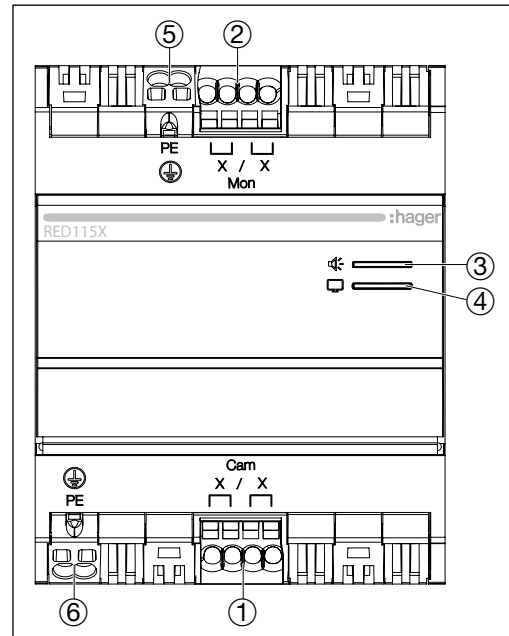


Figure 1: layout and design

- ① 2-wire bus input from outdoor (street) video plate
- ② Terminal for connection of one or more indoor video station(s)
- ③ Audio coupling LED (green)
- ④ Video coupling LED (red)
- ⑤ ⑥ Ground connection terminal

Operation

The device makes it possible:

- To connect 32 indoor stations within a single installation,
- To call 3 indoor video stations simultaneously from a single button on the outdoor (street) plate.

Typical uses

- Coupler for audio and/or video installations.
- DIN rail mounting in accordance with DIN Standard EN 60715.
- Not compatible with intercom systems of other manufacturers.
- Suitable only for indoor installation with no moisture.

Product features

- Overload protection.
- All connections are fitted with spring terminals.
- Installations can use a maximum of 8 couplers in parallel with 32 indoor stations per line, making a total of 256 video indoor stations.



In the same installation, you don't have to connect a RED111X and a REK350X

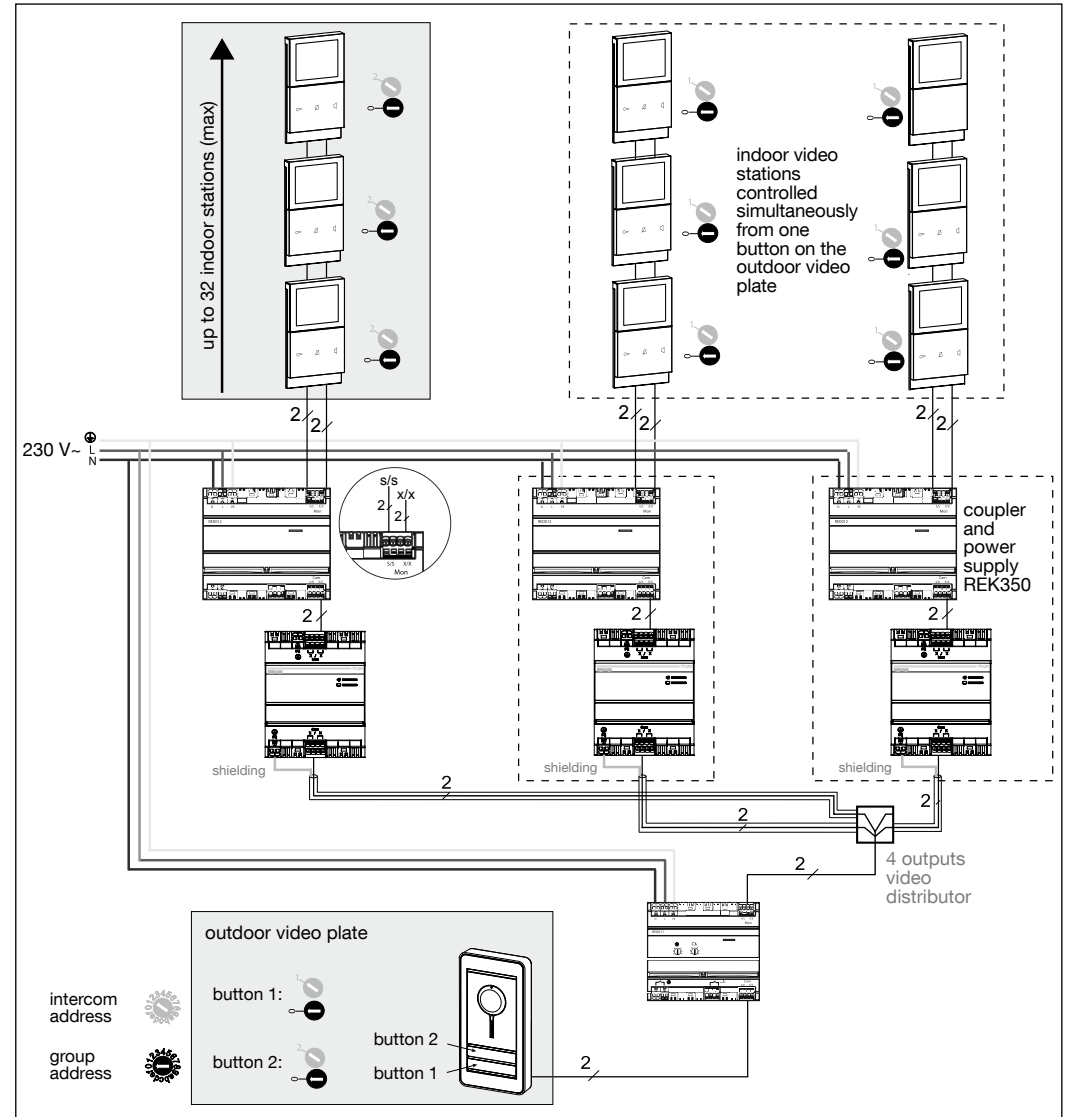


Figure 2: operation

Safety instructions

The device must only be installed by a qualified electrician in accordance with the installation standards in force in your country. Do not install outside of the building.

Connection of the device



A RED115X counts as an indoor video station.

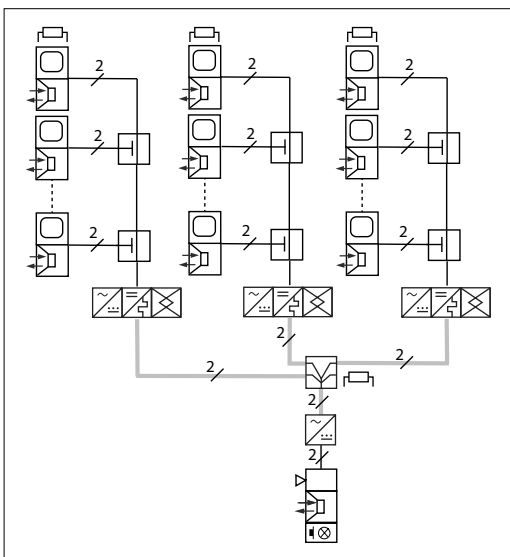


Figure 3: example of connection

Circuit symbols and elements of circuit diagrams

	Indoor station
	indoor video station
	2-wire DIN rail power supply for coupler
	Secondary line coupler
	Terminating resistor
	Twisted pair
	12 V~ network transformer
	Video deflector
	4-way video distributor
	Outdoor (street) video plate
	Door release

Cable length attenuation

Calculations of cable length attenuation in 2-wire installations are provided in the following table.



To compensate for possible attenuation, Hager has a RED711X / RED721X 2-wire video amplifier.

Type of cable	Max. cable length (m)	Max. attenuation (dB)	Max. loop resistance (Ω)
Cable between coupler and indoor video/audio station			
J-Y(ST)Y 0.6 mm	75 m 150 m ¹⁾	40 dB	15 Ω
J-Y(ST)Y 0.8 mm	150 m 150 m ¹⁾		
CAT 0.5 mm	50 m 100 m ¹⁾ 150 m ²⁾	20 dB	
YR 0.8 mm	75 m 75 m ¹⁾		
Cable between coupler and outdoor (street) plate			
J-Y(ST)Y 0.6 mm	75 m	20 dB	15 Ω
J-Y(ST)Y 0.8 mm	150 m		
CAT 0.5 mm	50 m	15 dB	
YR 0.8 mm	75 m		
Door release cable/lighting to the transformer with door release absorbed current of 1 A (0.5A)			
J-Y(ST)Y 0.6 mm	30 m; 60 m ³⁾ (60 m; 120 m ³⁾)	-	3.5 Ω (7 Ω)
J-Y(ST)Y 0.8 mm	50 m; 100 m ³⁾ (100 m; 200 m ³⁾)		
CAT 0.5 mm	20 m; 40 m ³⁾ (40 m; 80 m ³⁾)		
YR 0.8 mm	50 m; 100 m ³⁾ (100 m; 200 m ³⁾)		

Table 1: wiring data

- ¹⁾ Length of cable for indoor video stations with auxiliary power supply
- ²⁾ With 2-core wire for the auxiliary power supply
- ³⁾ With 2-core wire
- ⁴⁾ Typical attenuation of cat. 6/7 cable (network cable) ~6 dB/100m

Instructions for electricians

Mounting and electrical connection



- Risk of device damage.
- Fault voltages may arise due to live-line works.
- Disconnect the installation environment before any connection is made.

When some gate intercom systems are installed, it is advisable to follow the general safety instructions applicable to telecommunication equipment according to VDE 0800:

- Separate guidance of network and gate communication lines according to VDE 0800.
- Separation strips between network and gate intercom lines in ducts used jointly.
- Use of current telecommunication cables, e.g. J-Y (St) Y of 0.8 mm section.

Installation of the device

- Lock the device onto the DIN rail, in accordance with Standard DIN EN 60715. Connection of service voltage (2) should be on top.
- Heat is dissipated under operation. Check the maximum operating temperature. Provide adequate heat dissipation.

Technical specifications

	RED115 (rail-mounting)
2-wire bus supply voltage (X/X)	22 → 24 V $\overline{\text{---}}$
Typical 2-wire bus consumption	standby side MON 16 mA operation 60 mA max CAM side 16 mA
Operating temperature	- 5 °C → + 45 °C
Storage temperature	- 20 °C → + 60 °C
Dimensions (L x H x W)	70 x 90 x 67 mm
Protection rating	• box: IP20 • box under faceplate: IP30
Relative humidity	5-80% (with no condensation)
Impact resistance	IK04



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