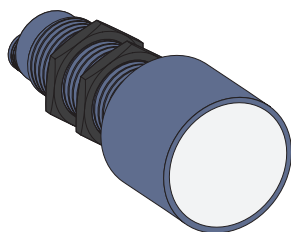


Ultrasonic Sensor M30


<http://qr.tesensors.com/XX0003>

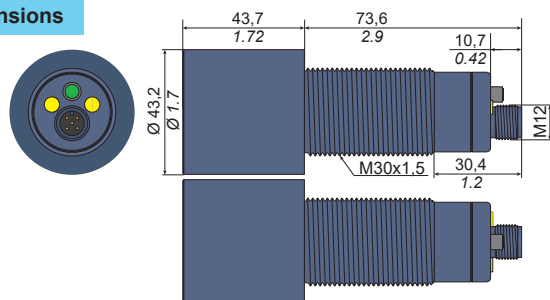
⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

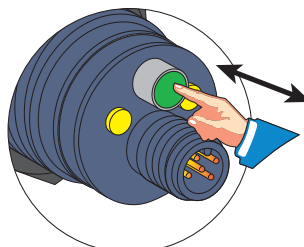
Do not use this product to detect objects within the deadband (blind zone) or outside the sensing window.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

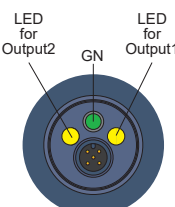
Dimensions



Teach button



LEDs

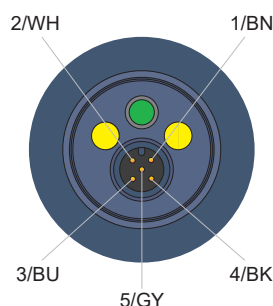


GN: Green (Echo status)

LED Output 1: Output 1 status

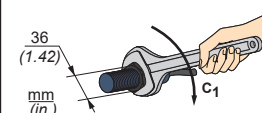
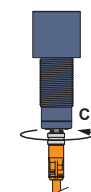
LED Output 2: Output 2 status

Connectors wiring

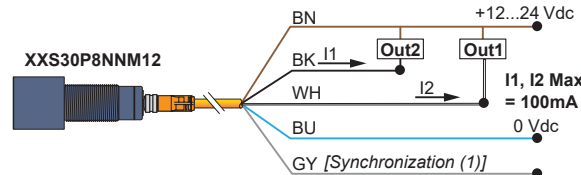
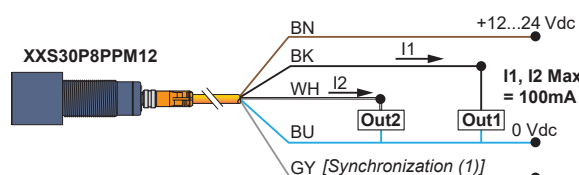


Pin Number	Wire Color	Description
①	BN: Brown	+12...24 Vdc
②	WH: White	Output2
③	BU: Blue	0 Vdc
④	BK: Black	Output1
⑤	GY: Grey	Synchronization

Tightening torque

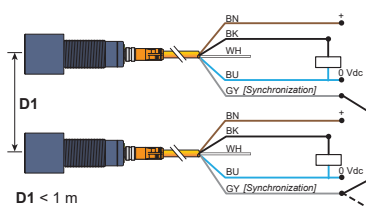
C₁ Max. = 3 Nm / 26.6 lb.in.C₂ ≤ 2 Nm / (17.7 lb.in.)

Wiring diagrams



Note :
(1): See synchronization section

Synchronization (side by side application)



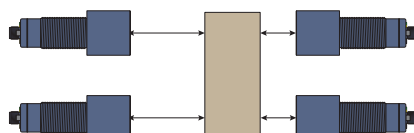
Synchronization operation

Up to 8 sensors can be synchronized to operate side by side by electrically connecting all pin no.5 (grey) wires together. To synchronize more than 8 sensors a PLC output can be used (the pins no.5 must be simultaneously driven by the rising edge of a pulse).

NOTE (1): The pulse must be at a high level of 12 to 24 Vdc and a low level of 0 to 2Vdc. All sensors should be the same model and have the same cycle time setting. The high pulse width should be 1 ms, and the low should be at least as long as the sensor cycle time setting (Sn = 8 m: default cycle time = 125 ms).

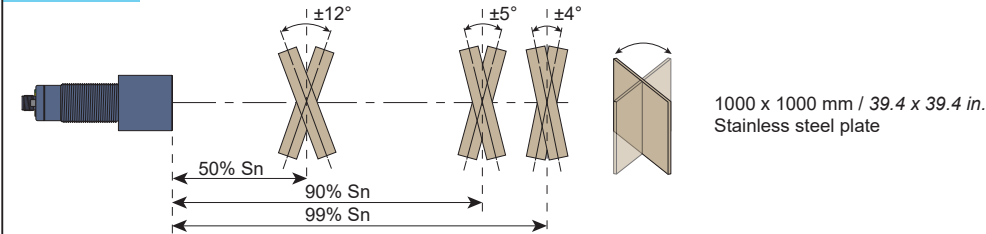
NOTE (2): When the pin no.5 is at low level or at high level, object sensing is suspended and the sensor output holds the last valid output state before suspension.

Multiplexing (face to face application)



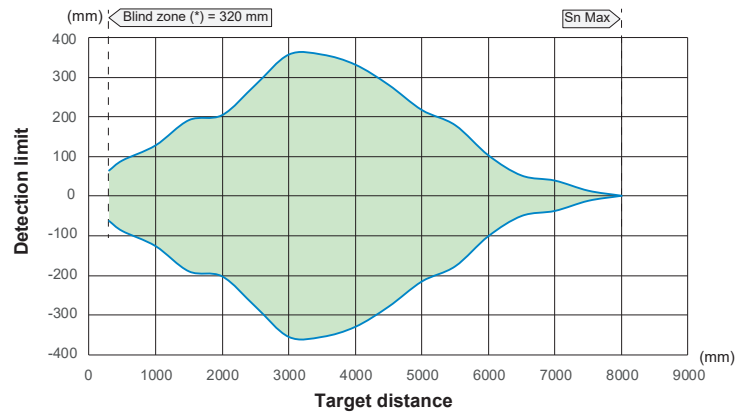
This function can be used to avoid disturbances when operating sensors face to face. A unique address must be assigned to each sensor (or group, Up to a maximum of 8 sensors) with the use of the XX Configuration Software (prior to wiring the sensors), and all pin no.5 (grey) wires must be connected together.
For sequencing with a PLC, please contact your local Telemecanique Sensors Technical Support Group.

Tilt angle



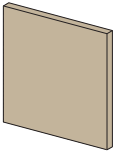
Detection curves for different objects

Detection curve with 100 x 100 mm square target

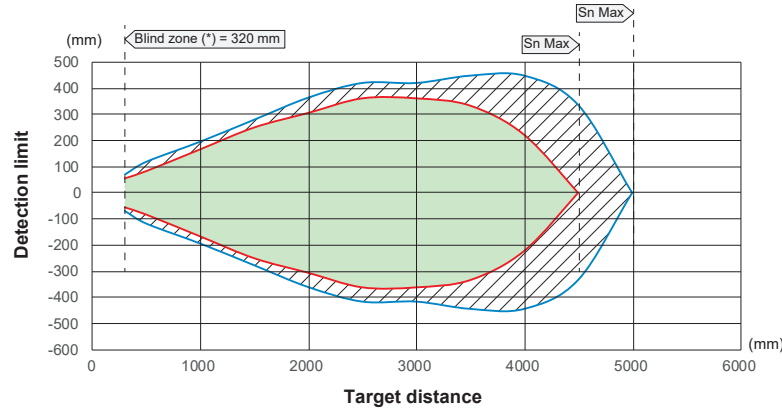


(*) : Blind zone

100 x 100 mm / 3.94 x 3.94 in.
Stainless steel plate



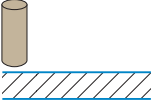
Detection curve with round bar



Ø 10 mm / 0.394 in.
Stainless steel cylinder



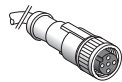
Ø 25 mm / 0.984 in.
Stainless steel cylinder



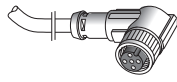
Wiring accessory

Cables

5-pin, 5-wire
(for synchronization)



XZCPV11V12L2 (2 m / 6.6 ft)
XZCPV11V12L5 (5 m / 16.4 ft)
XZCPV11V12L10 (10 m / 32.8 ft)



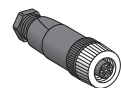
XZCPV12V12L2 (2 m / 6.6 ft)
XZCPV12V12L5 (5 m / 16.4 ft)
XZCPV12V12L10 (10 m / 32.8 ft)

5-pin, 4-wire
(no synchronization)

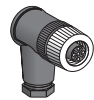
XZCP1141L2 (2 m / 6.6 ft)
XZCP1141L5 (5 m / 16.4 ft)
XZCP1141L10 (10 m / 32.8 ft)

XZCP1241L2 (2 m / 6.6 ft)
XZCP1241L5 (5 m / 16.4 ft)
XZCP1241L10 (10 m / 32.8 ft)

M12 connectors

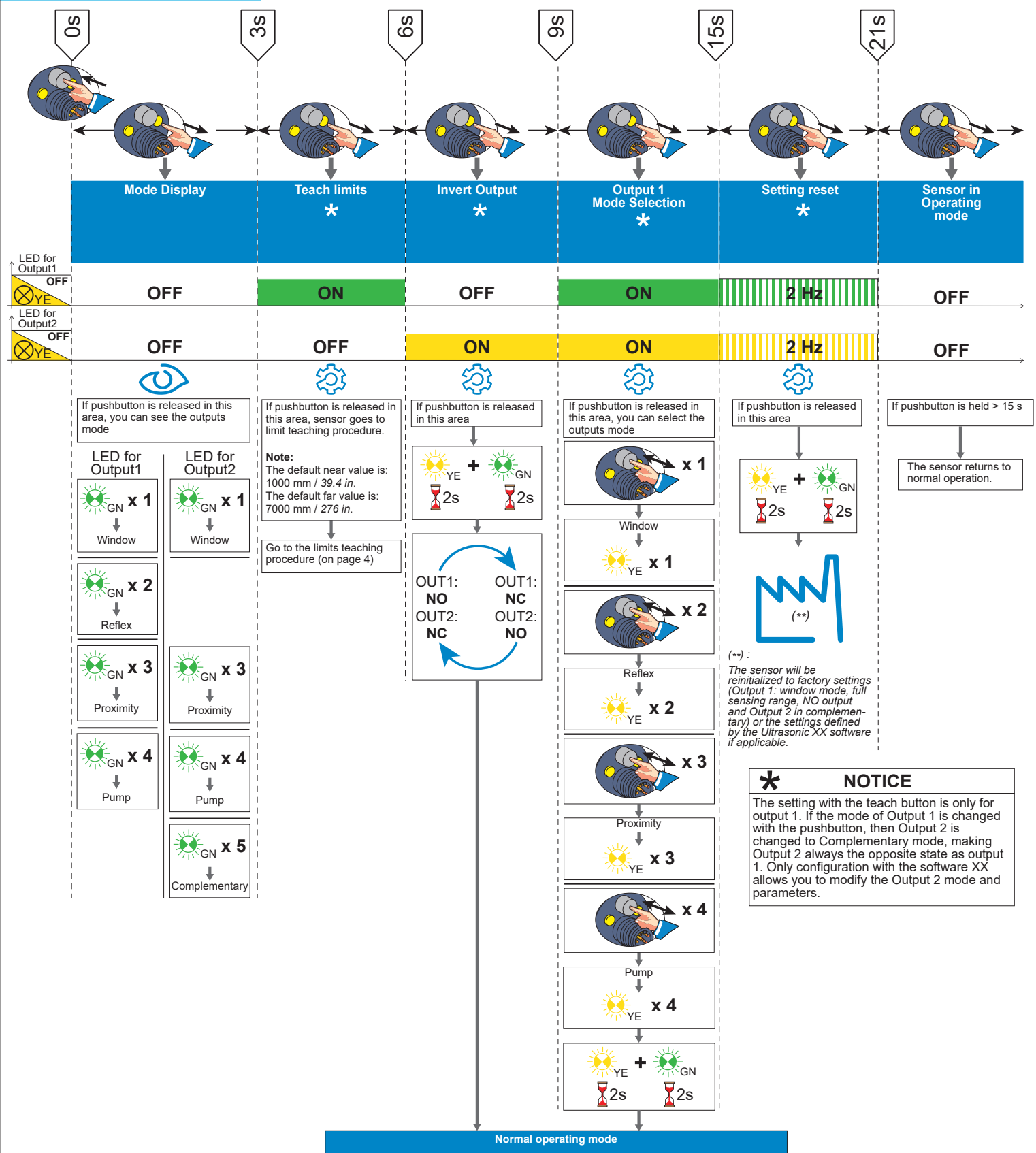


XZCC12FDM50B



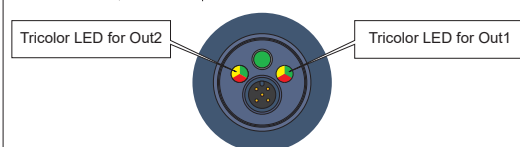
XZCC12FCM50B

Sensor setting with teach procedure



Legend:

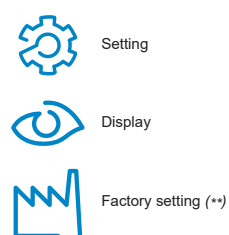
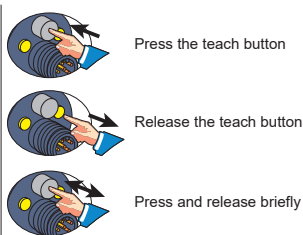
⊗ OFF ● ON ● Flashing GN: Green YE: Yellow RD: Red



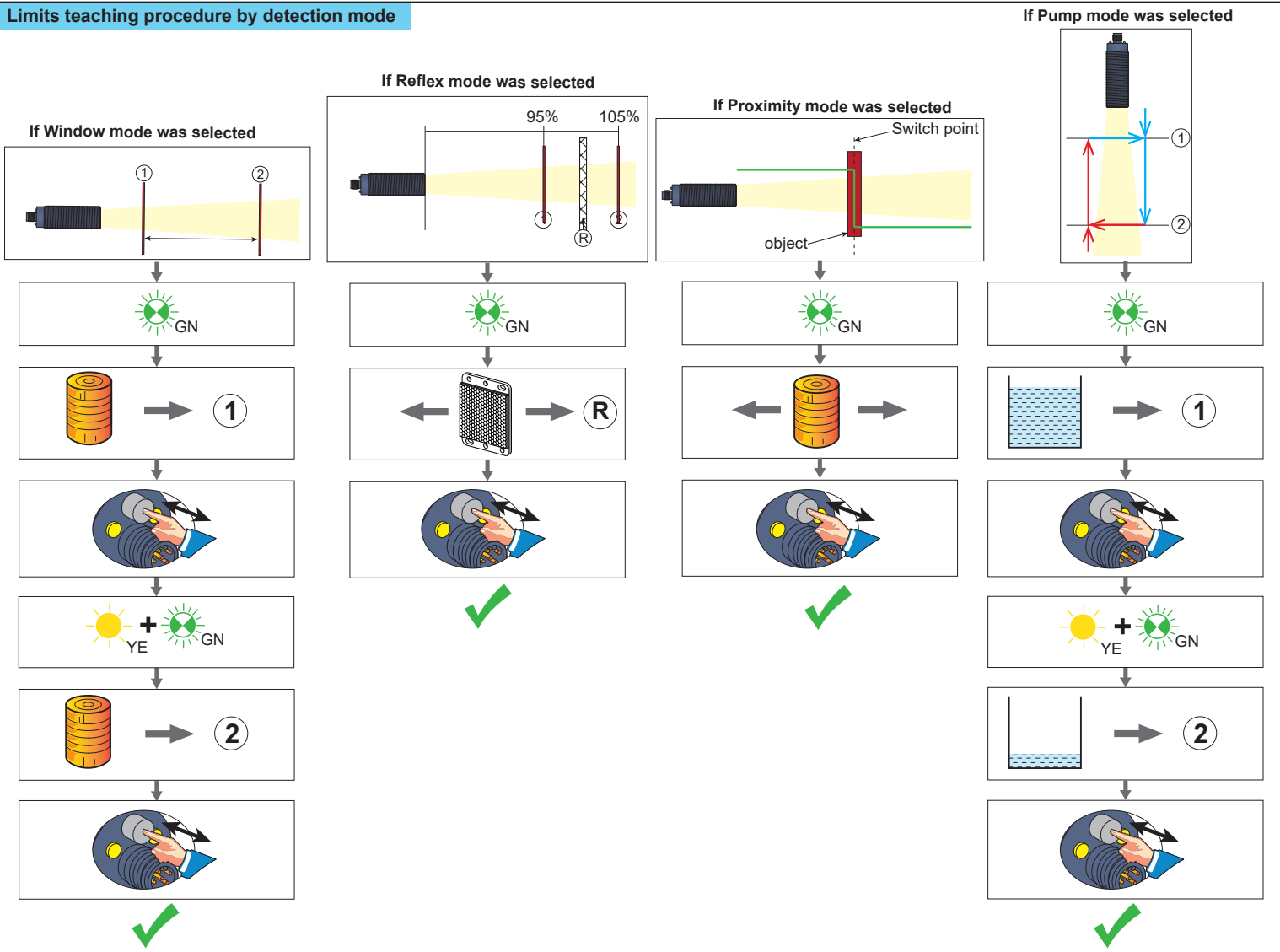
Processing

Setting error during teach process.
Short circuit or overcurrent on OUT1/OUT2 during normal operation.

1 Near limit 2 Far limit



Limits teaching procedure by detection mode



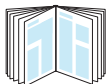
Scan the Qr-code to access this Instruction Sheet in different languages.



<http://qr.tesensors.com/XX0003>

Note :

You can download this Instruction Sheet in different languages from our website at: www.tesensors.com



- N°: GDE5901501_EN
- N°: GDE5901501_FR
- N°: GDE5901501_DE
- N°: GDE5901501_ES
- N°: GDE5901501_IT
- N°: GDE5901501_ZH

We welcome your comments about this document. You can reach us through the customer support page on your local website.



Manufacturer :

Schneider Electric Industries SAS
35 rue Joseph Monier
92500 Rueil Malmaison
France



UK Representative :

Schneider Electric Limited
Stafford Park 5
Telford, TF3 3BL
United Kingdom



Уполномоченный поставщик в РФ :

АО «Шнейдер Электрик»
Адрес: 127018, Россия, г. Москва, ул. Двинцев, д.12, корп. 1
Тел. +7 (495) 777 99 90
Факс +7 (495) 777 99 92

Қазақстан Республикасында ресми жеткізуші :

ЖШС «Шнейдер Электрик»
Мекен-жайы: Қазақстан Республикасы, Алматы қ., Достық даң.,
«Кен Дала» Бизнес Орталығы, 5-ші қабат.
Тел.: +7 (727) 357 23 57
Факс.: +7(727) 357 24 39