What is claimed is:

1. A method for data transmission, comprising:

determining, by a terminal device, number of resource elements (REs) for a physical sidelink shared channel (PSSCH) in a second resource according to a first resource used for transmitting a physical sidelink control channel (PSCCH) and the second resource indicated by the PSCCH and used for transmitting the PSSCH, the first resource at least partially overlapping with the second resource; and

determining, by the terminal device, a transport block size (TBS) for the PSSCH according to the number of the REs for the PSSCH;

wherein determining, by the terminal device, the TBS for the PSSCH according to the number of the REs for the PSSCH comprises:

determining, by the terminal device, number of information bits according to the number of the REs for the PSSCH, wherein the number of the information bits satisfies $N_{\text{info}} = N_{RE} \times R \times Q_m \times v$, N_{RE} represents the number of the REs for the PSSCH, R represents a transmission bit rate, Q_m represents a modulation order, and v represents number of transmission layers; and

determining, by the terminal device, the TBS according to the number of the information bits;

wherein determining, by the terminal device, the TBS according to the number of the information bits comprises:

obtaining, by the terminal device, quantified number of information bits by quantifying the number of the information bits; and

determining, by the terminal device, the TBS according to the quantified number of the information bits.

2. The method of claim 1, wherein the REs for the PSSCH do not comprise REs in the first resource.

3. The method of claim 2, wherein the REs for the PSSCH further do not comprise at least one of:

REs occupied by a sidelink (SL) reference signal;

REs unavailable for SL transmission;

REs occupied by a physical sidelink feedback channel (PSFCH);

REs used as guard periods (GPs); or

REs used for automatic gain control (AGC).

4. The method of claim 3, wherein the number of the REs for the PSSCH satisfies

$$N_{RE} = N_{PRB} \times N_{SC}^{RB} \times N_{symbol}^{PSSCH} - N_{RE}^{PSCCH1} - N_{RE}^{PSCCH2} - N_{SC}^{DMRS} - N_{oh}^{3}$$

wherein N_{PRB} represents number of physical resource blocks (PRBs) for the PSSCH, N_{SC}^{RB} represents number of subcarriers in a PRB, N_{symbol}^{PSSCH} represents number of orthogonal frequency division multiplexing (OFDM) symbols allocated for transmission of the PSSCH in a present slot;

$N_{RE}^{PSCCH1} = F_{RB}^{PSCCH} \times T_{symbol}^{PSCCH} \times N_{SC}^{RB}$, N_{RE}^{PSCCH1} represents number of REs for a first PSCCH, F_{RB}^{PSCCH1} represents number of PRBs used for transmitting the first PSCCH, T_{symbol}^{PSCCH1} represents number of OFDM symbols used for transmitting the first PSCCH, N_{RE}^{PSCCH2} represents number of REs for transmission of a second PSCCH, N_{SC}^{DMRS} represents number of REs that are used for carrying a demodulation reference signal (DMRS) of the PSSCH; and

wherein N_{oh}^{3} is determined based on $N_{oh}^{3} = N_{PRB} \times N_{oh}^{resourcepool}$, and $N_{oh}^{resourcepool}$ is indicated by configured signaling or pre-configured signaling of a resource pool.

5. The method of claim 3, wherein the number of the REs for the PSSCH satisfies

$$N_{RE} = \mathrm{N_{PRB}} \times \mathrm{N_{SC}^{RB}} \times t_{symbol,8} - \mathrm{N_{RE}^{PSCCH1}} - \mathrm{N_{RE}^{PSCCH2,ref}} - \mathrm{N_{PRB}} \times N_{oh}^{8}$$

N_{PRB} represents number of PRBs for the PSSCH, N_{SC}^{RB} represents number of subcarriers in a PRB, N_{RE}^{PSCCH1} represents number of REs for a first PSCCH, N_{oh}^{8} represents a value configured by a high layer, $t_{symbol,8}$ represents number of reference OFDM symbols used for transmitting the PSSCH, and

$t_{symbol,8}$ is determined according to number of OFDM symbols that are used for transmitting the PSSCH in a slot where a resource used for current transmission and/or retransmission of the PSSCH is located.

6. The method of claim 3, wherein the number of the REs for the PSSCH satisfies

$N_{RE} = \mathrm{N_{PRB}} \times \mathrm{N_{SC}^{RB}} \times t_{symbol,9} - \mathrm{N_{RE}^{PSCCH1}} - \mathrm{N_{RE}^{DMRS,ref}} - \mathrm{N_{RE}^{PSCCH\ ,ref}} - \mathrm{N_{PRB}} \times N_{oh}^{9}$

N_{PRB} represents number of PRBs for the PSSCH, N_{SC}^{RB} represents number of subcarriers in a PRB, N_{RE}^{PSCCH1} represents number of REs for a first PSCCH, $\mathrm{N_{RE}^{DMRS,ref}}$ represents number of REs for carrying a reference signal, $\mathrm{N_{RE}^{PSCCH2,ref}}$ represents number of REs for carrying sidelink control information, SCI, format 0-2, N_{oh}^{9} represents a value configured by a high layer, $t_{symbol,9}$ represents number of reference OFDM symbols used for transmitting the PSSCH, and $t_{symbol,9}$ is determined according to number of OFDM symbols that are used for transmitting the PSSCH in a slot where a resource used for current transmission and/or retransmission of the PSSCH is located.

7. The method of any of claims 3 to 6, wherein the SL reference signal comprises the DMRS of the PSSCH.

8. The method of any of claims 1 to 7, wherein the REs in the first resource comprise the REs occupied by the PSCCH and the REs occupied by the DMRS of the PSCCH.

9. The method of any of claims 1 to 8, wherein the PSCCH comprises a first PSCCH and a second PSSCH, wherein

the first PSCCH is used to indicate information used for resource sensing and first information, wherein the first information is used for determining a transmission resource for the second PSCCH; and

the second PSCCH is used to indicate information used for demodulating the PSSCH.

10. The method of claim 9, wherein the information used for resource sensing comprises at least one of:

information of the second resource;

priority information of a service carried in the PSSCH; or

information of a reserved resource of the terminal device.

11. The method of claim 9 or 10, wherein the first information comprises at least one of:

a format of the second PSCCH;

an aggregation level of the second PSCCH;

a size of a frequency-domain resource occupied by the second PSCCH; or

number of time-domain symbols occupied by the second PSCCH.

12. The method of any of claims 9 to 11, wherein the information used for demodulating the PSSCH comprises at least one of:

a modulation and coding scheme (MCS);

number of transmission layers;

a hybrid automatic repeat request (HARQ) process number;

a new data indicator (NDI); or

an identifier (ID), wherein the ID comprises at least one of: an ID of a transmit device, an ID of a receive device, a group ID of the receive device, or a service ID corresponding to the PSSCH.

13. The method of any of claims 1 to 12, wherein the terminal device is a receive device, and the method further comprises:

receiving on the first resource, by the terminal device, the PSCCH transmitted by a transmit device, wherein the PSCCH is used for determining the second resource.

14. The method of any of claims 1 to 13, wherein the terminal device is a transmit device, and the method further comprises:

transmitting on the first resource, by the terminal device, the PSCCH to a receive device, wherein the PSCCH is used for determining the second resource.

15. A terminal device, comprising:

a processing unit configured to determine number of resource elements (REs) occupied by a physical sidelink shared channel (PSSCH) in a second resource according to a first resource used for transmitting a physical sidelink control channel (PSCCH) and the second resource indicated by

the PSCCH and used for transmitting the PSSCH, the first resource at least partially overlapping with the second resource; and

the processing unit further being configured to determine a transport block size (TBS) for the PSSCH according to the number of the REs for the PSSCH;

wherein the processing unit configured to determine the TBS for the PSSCH according to the number of the REs for the PSSCH is configured to:

determine number of information bits according to the number of the REs for the PSSCH, wherein the number of the information bits satisfies $N_{\text{info}} = N_{RE} \times R \times Q_m \times v$, N_{RE} represents the number of the REs for the PSSCH, R represents a transmission bit rate, Q_m represents a modulation order, and v represents number of transmission layers; and

determine the TBS according to the number of the information bits;

wherein the processing unit configured to determine the TBS according to the number of the information bits is configured to:

obtain quantified number of information bits by quantifying the number of the information bits; and

determine the TBS according to the quantified number of the information bits.

16. A terminal device, comprising:

a memory configured to store computer programs; and

a processor configured to invoke and execute the computer programs stored in the memory, to perform the method of any of claims 1 to 14.

17. A computer-readable storage medium configured to store computer programs which enables a computer to perform the method of any of claims 1 to 14.